

Appendix G

**SBFCA, FRWLP Approach for  
Addressing Existing Levee Encroachments**

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## MEMORANDUM – DRAFT

**TO:** Mr. Chris Krivanec, P.E., G.E., HDR, Inc.

**FROM:** Jonathan Kors, P.E., PMP *JK*

**DATE:** January 13, 2012

**SUBJECT:** SBFCA, Feather River West Levee Project, Approach for Addressing Existing Levee Encroachments

### INTRODUCTION

In 2010, the Sutter Butte Flood Control Agency (SBFCA) embarked on the Feather River West Levee (FRWL) Project. The project seeks to rehabilitate 44 miles of existing levee along the west bank of the Feather River through Sutter and Butte Counties. A geotechnical assessment of the levees has been completed and the potential mitigation measures to address the deficiencies in each reach have been analyzed by the design team. The alternatives are outlined in detail in the Project Pre-design Formulation Report (PFR) (Reference 1). The design of the project is currently approaching the 65 percent level. For construction, the project is broken up into four contract packages, as described in Reference 2 below. The construction packages, listed in priority order, are as follows: Project C, Project D, Project B, and Project A. The limits of each project are shown on Figure 1. Project C and Project D will be constructed in 2013 and 2014, while Project A and Project B will be constructed in 2014 and 2015.

The levee in each project possesses numerous encroachments which will need to be addressed by the work because they either: a) present a threat to the stability of the levee system, b) do not currently comply with levee encroachment criteria; or c) will be disrupted or otherwise impacted by the levee rehabilitation work. Some of the encroachments have been reviewed and permitted by the Central Valley Flood Protection Board (CVFPB), while others pre-date the establishment of the State Reclamation Board (now the CVFPB), and have been “grandfathered” into the system. The permit status of others remains to be determined. Typical encroachments include pressure pipelines (water supply pipelines from waterside pump stations and drainage pipelines from landside drainage pump stations), gravity drainage pipes, gas lines, telephone utilities, overhead utilities, structural encroachments, and other types and variations as discussed below.

The purpose of this Memorandum is to provide a complete listing of the encroachments (as complete as possible based upon available information), outline the approach to handling project encroachments in general, and outline the approach to handling specific encroachments located within Project areas C and D.

## REFERENCES

1. HDR, Wood Rodgers, URS, and MHM, “Pre-design Formulation Report, Feather River West Levee – Segments 1 through 7, Sutter Butte Levee Rehabilitation Program, Sutter and Butte Counties, California,” February 2011.
2. Peterson Brustad, Inc., “Preliminary Construction Ordering Analysis,” July 11, 2011.
3. Wood Rodgers and HDR, 30-Percent Design Drawings, February 2011.

## MASTER ENCROACHMENTS LIST

MHM Engineers, the HDR design team member assigned primary design responsibility for utilities disrupted by the project, has developed a Master Encroachments List for identifying all utilities and encroachments on the project. To build the list, MHM performed a field review of the levee, listing all encroachments that were identifiable in the field. The physical location of encroachments identified were captured using GPS equipment. In addition, CVFPB encroachment logs were reviewed by MHM and compared with the encroachments identified in the field. Other sources of information included the U.S. Army Corps of Engineer’s (USACE) Periodic Inspection Report and as-built documentation of various projects located along the alignment. The Master Encroachments List represents the most comprehensive source of information on encroachments impacted by the project. The list continues to be maintained by MHM and is updated as additional information becomes available. The current version of the list is included as Appendix A.

## ENCROACHMENT NOMENCLATURE AND CATEGORIZATION

Given the number of encroachments the project must address and the variable nature of how each will be addressed, it was determined that a means to describe and categorize the encroachments was necessary to efficiently coordinate the work with regulatory agencies, utility owners, and the public. For this purpose, Wood Rodgers developed the outline presented on Figure 2. The outline divides all levee encroachments into two categories, those that only encroach on the levee right-of-way, and those that encroach on the levee prism itself. From this distinction, the categories are divided into three subcategories: Structural Encroachments, Wet Utility Encroachments, and Dry Utility Encroachments. These subcategories divide the encroachments in a manner that describes how the project will address them in general. In general, for levee Right-of-Way encroachments, all three categories will not be addressed by the project, but by SBFCA or the local maintaining agency over time. For Levee Prism encroachments, Structure and Wet Utility encroachments will be addressed by the levee improvement contractor. Levee prism dry utility encroachments will be addressed in advance of the levee improvement contractor’s work to clear the way for the levee improvements.



## **PROJECT-SPECIFIC ENCROACHMENTS HANDLING**

Wood Rodgers has reviewed the Master Encroachment List and the construction drawings (Reference 3), and has developed project specific listings for encroachments. The intent of these lists is to inform the reader how each individual encroachment will be handled by the project. The lists incorporate the nomenclature outlined in Figure 2. It is noted that the lists present some encroachments that are treated in a manner different than the general rules described above. In many cases, these encroachments fall into the exceptions described in the notes section of Figure 2. In addition, there are encroachments that either fully comply with all levee safety and encroachment criteria already, or are located in areas of the levee where work is not being performed (no work reaches). These encroachments also generally require treatment in a manner other than general case.

To determine how each specific encroachment is being treated, the Project-specific lists for Project C and Project D are included as Figure 2 and Figure 4, respectively. These lists are color coded to show how each encroachment will be addressed (or not addressed) by the project. Those addressed by the levee rehabilitation contractor during construction are coded blue. Those addressed by a separate contractor (or utility company) prior to the levee rehabilitation contractor are coded red, and those that will be addressed by SBFCA or the local levee maintaining agency (Levee District 1, Levee District 9, or MA 3, 12, or 16) over time, are coded green.

## **CONCLUSIONS AND RECOMMENDATIONS**

It is proposed that these project-specific lists (and this Memorandum) be shared with the Department of Water Resources, CVFPB, and USACE, as well as affected members of the public, to communicate SBFCA's intentions for handling each encroachment encountered on the project. When this coordination has occurred, the design team should begin coordinating with the affected utility owners to advance the design of utility relocations on the project.

The final version of this Memorandum will address the handling of project encroachments for all Projects (A, B, C, and D).

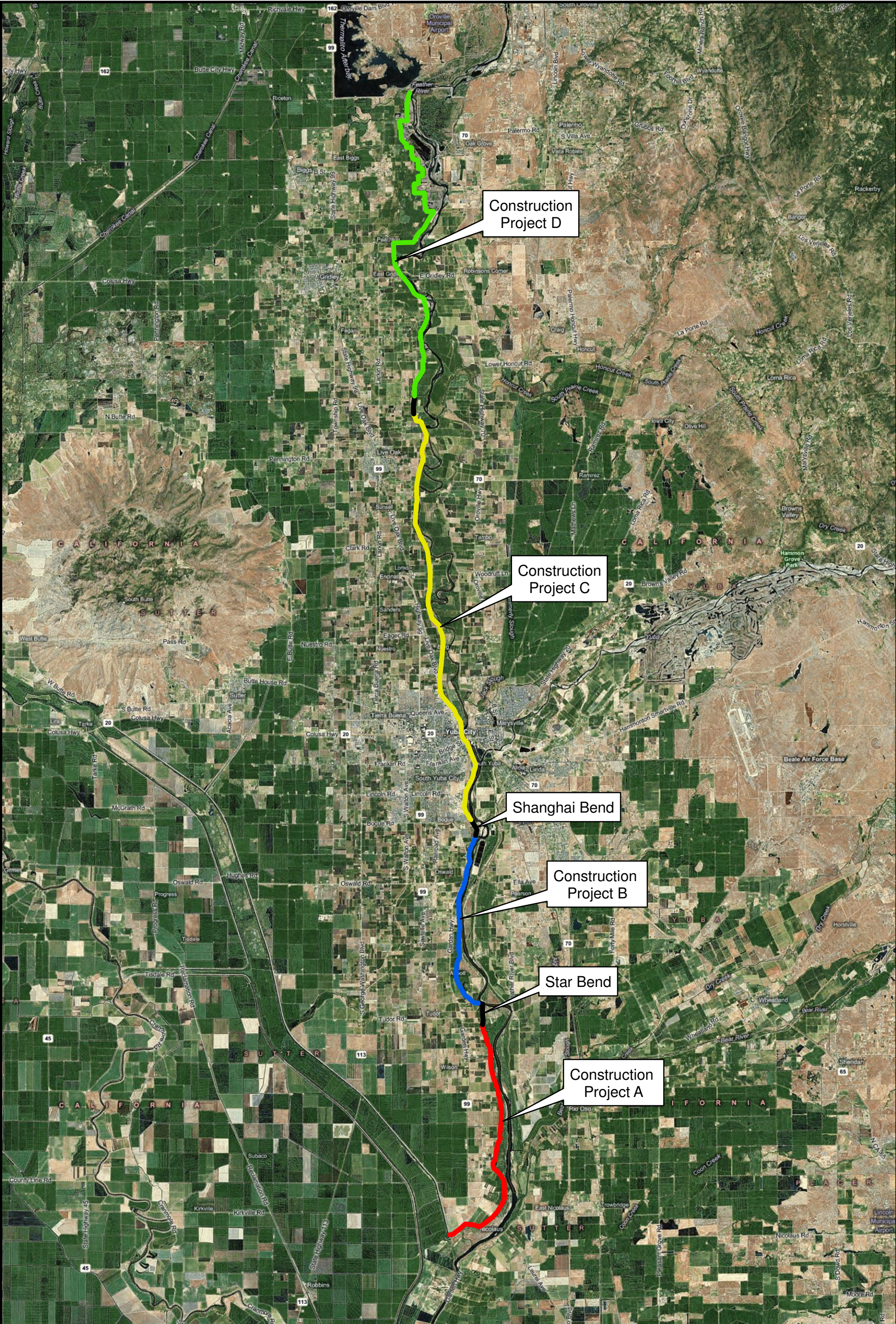
Attachments



# FIGURES

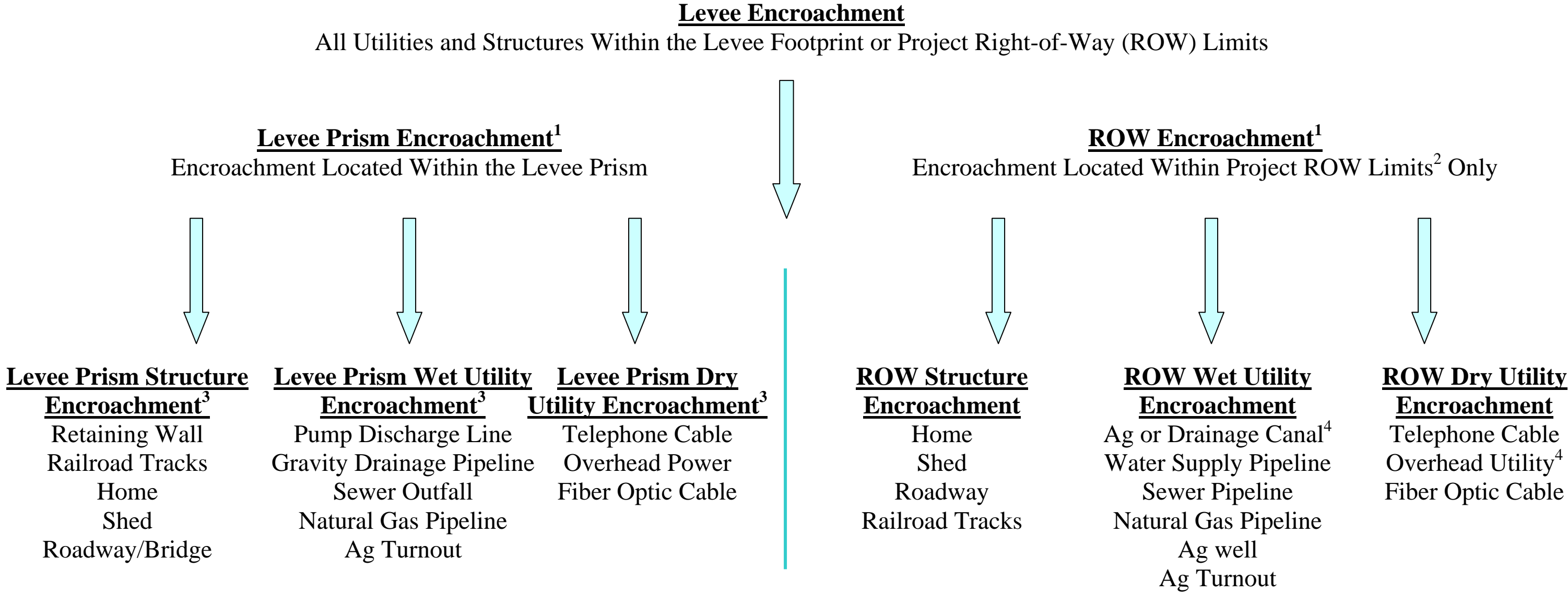








SUTTER BUTTE FLOOD CONTROL AGENCY  
FEATHER RIVER WEST LEVEE PROJECT  
PROPOSED NOMENCLATURE AND PROJECT APPROACH TO LEVEE ENCROACHMENTS



**Notes:**

1. All utilities running parallel to the levee, unless located within the levee prism, are considered ROW Encroachments. All utilities running perpendicular to the levee are considered Levee Prism Encroachments, with the exception of overhead utilities, which are **ONLY** a levee prism encroachment if a supporting pole is located within the levee prism.

2. ROW Encroachments are those encroachments that fall within the limits of the Project ROW, 20 feet from landside levee toe, and 15 feet from waterside levee toe.

3. In general, levee prism structure and wet utility encroachments will be relocated or otherwise modified as part of the levee improvement contract. Levee prism dry utility encroachments will be addressed where expeditious or necessary to do so in advance of the levee improvement contract.

4. ROW wet or dry utility encroachments will be relocated prior to the levee improvement contract if they are deemed an impediment to construction access.

**FIGURE 3**  
**SUTTER BUTTE FLOOD CONTROL AGENCY**  
**FEATHER RIVER WEST LEVEE PROJECT**  
**ENCROACHMENTS COORDINATION LIST - PROJECT C (STATION 845+00 TO 1623+86)**

**Color Coding Key-**

Green: Addressed by SBFCA or Local Maintaining Agency over time

Black: Complies with criteria or is not impacted by levee rehabilitation work.

Blue: Addressed by the levee rehabilitation contractor

Red: Addressed in advance of levee rehabilitation

STATION	TYPE	DESCRIPTION	OWNER	UTILITY DISRUPTED BY LEVEE WORK?	REMOVAL, RELOCATION, OR RETROFIT REQUIRED?	PERMITTED?
856+08	LP_WUE	24" seepage interceptor pump discharge line	City of Yuba City	Y	N	Y
856+23	LP_WUE	24" storm drain pump discharge line	City of Yuba City	Y	N	Y
881+41	LP_WUE	6" and 14" relief well pump station	LD1 of Sutter County	Y	N	N
893+84	LP_WUE	12" storm drain pipe	City of Yuba City	Y	N	Y
893+84	LP_WUE	16" pump station discharge pipe (Burns Drive Pump Station)	City of Yuba City	Y	N	Y
894+22	LP_DUE	24 kV underground cable	PG&E	Y	N	Y
894+22	ROW_DUE	Utility pole at levee toe	PG&E	N	Y	Y
899+45	LP_WUE	12" pipe crossing	TBD	Y	N	Y
912+94	LP_DUE	2 (16") gas lines	PG&E	Y	N	N
959+00 to 972+00	ROW_DUE	Overhead powerline, utility poles in close proximity to levee toe	TBD	N	Y	?
971+70	LP_DUE	Utility pole in levee slope	TBD	Y	Y	?
972+50 To 993+50	ROW_SE	Homes and outbuildings along 2nd Street	Various	N	Y	Y
989+40	LP_SE	Outbuilding at 2nd Street	TBD	N	Y	Y
990+55	LP_SE	Outbuilding at 2nd Street	TBD	N	Y	Y
990+75	LP_SE	Outbuilding at 2nd Street	TBD	N	Y	Y
992+45	LP_SE	Outbuilding at 2nd Street	TBD	N	Y	Y
992+75	LP_SE	Outbuilding at 2nd Street	TBD	N	Y	Y
995+75	LP_SE	County Courthouse storage building	Sutter County	N	Y	
998+50 to 1000+40	ROW_SE	Buildings at levee toe	TBD	N	Y	?
1003+72	LP_DUE	Utility pole in levee slope	PG&E	N	Y	N
1005+25	ROW_SE	Building at levee toe	TBD	N	Y	?
1006+07	LP_DUE	Utility pole in levee slope	PG&E	Y	Y	Y
1006+93	LP_DUE	Utility and anchor pole	PG&E	Y	Y	Y
1007+46	LP_DUE	Light pole for bike path on levee crown	City of Yuba City	N	N	N
1008+00 To 1025+00	ROW_DUE	Overhead power running parallel to LS levee toe	PG&E	N	Y	Y
1008+00 To 1014+00	LP_SE	Short retaining wall at LS levee slope, holds levee back from power poles	TBD	N	Y	?
1008+75	LS_DUE	Utility pole in waterside levee slope	PG&E	Y	Y	Y
1012+00	ROW_SE	Building at levee toe	TBD	N	Y	?
1014+00 to 1018+00	ROW_SE	Buildings at levee toe	TBD	N	Y	?
1019+00	LP_WUE	4" Pipe abandoned in place above existing cutoff wall	TBD	N	N	N
1019+82	LP_DUE	Light pole for bike path on levee crown	TBD	N	N	N
1020+30	LP_DUE	Emergency telephone call box at levee waterside toe	Pac Bell	N	N	N
1022+15	LP_DUE	Light pole for bike path on levee crown	TBD	N	N	N
1025+00	LP_DUE	Utility pole in levee slope and parallel OH crossing (impacts gap closure)	PG&E	Y	Y	?
1026+78	LP_DUE	10" communications conduit beneath levee and river	TBD	Y	N	Y
1028+09	LP_DUE	Utility pole at levee crown	TBD	N	N	N

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STATION	TYPE	DESCRIPTION	OWNER	UTILITY DISRUPTED BY LEVEE WORK?	REMOVAL, RELOCATION, OR RETROFIT REQUIRED?	PERMITTED?
1036+87	LP-DUE	Telephone conduit	Pac Bell	N	N	Y
1037+90	LP-DUE	Telephone conduit	Pac Bell	N	N	Y
1038+50	LP-DUE	8" gas line abandoned in place	TBD	N	Y	N
1043+20	LP_WUE	Gilziser Slough drainage pump station - 4 pipes total	City of Yuba City	N	N	Y
1043+40	LP_WUE	Abandoned Gilziser Slough Sewer Pipe	City of Yuba City	N	N	Y
1054+75	LP_DUE	Emergency telephone call box at levee landside slope	Pac Bell	N	N	N
1055+00	LP_DUE	Light pole for bike path in levee slope	TBD	N	N	N
1073+41	LP_DUE	16-inch gas line	PG&E	N	N	N
1094+40	LP_DUE	3" steel pipe crossing - abandoned	TBD	Y	Y	?
1096+75	LP_WUE	Yuba City raw water intake facility (3 Pipes)	City of Yuba City	Y	N	Y
1097+00	ROW_DUE	Utility pole in close proximity to levee toe	PG&E	N	Y	Y
1107+82	LP_DUE	Utility and Anchor Pole	PG&E	Y	Y	N
1111+50	LP_WUE	Yuba City north area drainage pipe	City of Yuba City	Y	N	Y
1126+00 to 1131+30	ROW_DUE	Overhead powerline, utility poles in close proximity to levee toe	TBD	N	Y	?
1131+00	LP_SE	Union Pacific railroad tracks	UPRR	Y	Y	Y
1131+50	LP_DUE	Fuel line	UPRR	Y	Y	Y
1132+61	LP_DUE	Underground fiber optic cable marker	TBD	Y	Y	?
1135+40	LP_WUE	16" gas line	PG&E	Y	N	Y
1139+25	LP_DUE	Utility pole and anchor pole	PG&E	Y	Y	?
1152+40	ROW_DUE	Twin 110kV utility tower at levee toe	PG&E	N	Y	Y
1170+05	LP_DUE	Utility pole and anchor pole	PG&E	Y	Y	?
1174+00	ROW_WUE	Ag well in close proximity to levee toe	Private	N	Y	?
1174+35	ROW_DUE	Utility pole at levee toe	PG&E	N	Y	N
1176+90	ROW_DUE	Utility pole at levee toe	PG&E	N	Y	N
1179+05	ROW_DUE	Utility pole and guy wire at levee toe	PG&E	N	Y	?
1179+05 to 1201+25	ROW_DUE	Overhead power running parallel to LS levee toe	PG&E	N	Y	?
1180+75	LP_WUE	12" pipe crossing - abandoned	TBD	N	Y	?
1181+00	LP_WUE	3" irrigation pipe crossing - abandoned	TBD	N	Y	?
1182+15	LP_WUE	8" drainage pipe crossing - abandoned	TBD	N	Y	?
1182+75	LP_WUE	20" irrigation pipeline (may not be in place at this time)	Private	Y	N	Y
1200+60	ROW_WUE	Pump station at levee toe	Private	N	Y	N
1200+68	LP_WUE	10" irrigation pipeline - abandoned	Private	Y	N	N
1222+15	ROW_DUE	Utility pole and guy wire at levee toe	PG&E	N	Y	N
1223+80	ROW_DUE	Utility pole at levee toe	PG&E	N	Y	N
1225+90	LP_DUE	Utility pole at levee crown	PG&E	Y	Y	N
1229+43	ROW_WUE	Pump station within 10' of toe	Private	N	Y	Y
1229+43	LP_WUE	16" pump station discharge pipe	Private	Y	Y	Y
1265+55	LP_WUE	18" pump station discharge pipe - abandoned	Private	N	Y	Y
1266+80	ROW_DUE	Utility pole and guy wire at levee toe	PG&E	N	Y	N
1284+91 to 1293+66	ROW_WUE	Concrete lined ditch	Private	N	Y	N
1289+50 to 1291+50	ROW_SE	Farm structures and out buildings in close proximity to levee toe	Private	N	Y	N
1293+66	ROW_DUE	Utility pole and guy wire at levee toe	PG&E	N	Y	



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STATION	TYPE	DESCRIPTION	OWNER	UTILITY DISRUPTED BY LEVEE WORK?	REMOVAL, RELOCATION, OR RETROFIT REQUIRED?	PERMITTED?
1298+60 to 1315+02	ROW_WUE	Seepage interceptor trench	LD9	N	N	N
1314+80	LP_WUE	20" pump station discharge pipeline	Private	Y	N	Y
1327+00	ROW_DUE	Utility pole and guy wire at levee toe	PG&E	N	Y	N
1347+06	LP_DUE	Telecommunication line	TBD	Y	Y	N
1375+75 To 1430+50	ROW_WUE	Sutter Extension Sunset Lateral Ditch	Sutter Extension	N	N	Y
1429+80	ROW_WUE	Overhead powerlines, utility poles at waterside levee toe	PG&E	Y	Y	N
1430+50	ROW_SE	Pump station and electrical equipment at landside toe	Sutter Extension	N	N	Y
1430+50	LP_WUE	36", and (2) 60" pump station discharge pipes (Sunset Pump Station)	Sutter Extension	Y	Y	Y
1430+50 To 1490+00	ROW_WUE	Sutter Extension Main Canal	Sutter Extension	N	N	N
1460+65	LP_WUE	6" PVC irrigation pipeline	Private	Y	Y	N
1463+00	ROW_SE	Reisidence in close proximity to levee toe	Private	N	Y	N
1470+00	LP_SE	Ramp to residence on landside at levee crown	Private	Y	Y	N
1470+00	ROW_SE	Residence on pile foundation at landside levee toe	Private	N	Y	N
1473+50	LP_SE	Fence at waterside levee toe	Private	Y	Y	N
1479+98	LP_SE	Private gate across levee	Private	Y	Y	N
1482+00 To 1486+00	ROW_SE	Private residences in close proximity to levee landside toe	Private	N	Y	N
1518+50 To 1520+50	ROW_SE	Large shop structure at landside levee toe	Private	N	Y	N
1520+25	ROW_DUE	Utility pole in levee slope	TBD	N	Y	N
1528+35	LP_WUE	6" steel pipe crossing	Private	Y	Y	Y
1532+86	LP_WUE	6" steel pipe crossing	Private	Y	Y	Y
1536+00	ROW_DUE	Utility pole and guy wire at levee toe	PG&E	N	Y	N
1536+15	LP_WUE	36" pipe crossing	RD 777	Y	Y	Y
1549+70	LP_WUE	12" pipe crossing	TBD	Y	Y	Y
1556+00 To 1558+00	ROW_SE	Residences at landside levee toe	Private	N	Y	N
1556+35	ROW_DUE	Utility pole in close proximity to levee toe	PG&E	N	Y	Y
1556+50	LP_WUE	8" pipe crossing through levee	Private	Y	Y	Y
1585+60	LP_WUE	12" pipe crossing through levee	Private	Y	Y	Y
1610+91	LP_WUE	18" CM pipe crossing	RD 777	Y	Y	Y
1611+50	ROW_SE	Residence at levee waterside toe and driveway at levee crown	Private	Y	Y	N
1610+50 To 1623+86	ROW_WUE	Sutter Butte Main Canal at landside toe	Sutter Extension	Y	N	Y

**FIGURE 4**  
**SUTTER BUTTE FLOOD CONTROL AGENCY**  
**FEATHER RIVER WEST LEVEE PROJECT**

**ENCROACHMENTS COORDINATION LIST - PROJECT D (STATION 1623+86 TO 2368+00)**

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STATION	TYPE	DESCRIPTION	OWNER	UTILITY DISRUPTED BY LEVEE WORK?	REMOVAL, RELOCATION, OR RETROFIT REQUIRED?	PERMITTED?
1635+50	ROW_SE	Farm structure in close proximity to levee toe	Private	N	Y	N
1637+60 to 1638+50	ROW_SE	Farm structure and fence in close proximity to levee toe	Private	N	Y	N
1638+99	LP_WUE	(2) 24" steel pipe crossing	RD 777	N	Y	Y
1651+80	LP_DUE	Utility pole in levee slope	PG&E	N	Y	N
1654+20	LP_DUE	Utility pole at levee toe	PG&E	N	Y	N
1663+80 to 1664+90	ROW_SE	House and outbuilding at landside toe	Private	N	Y	N
1665+30 to 1674+50	ROW_DUE	Utility poles and overhead powerlines at landside toe	PG&E	N	Y	N
1674+50 to 1766+00	ROW_WUE	Sutter Butte Main Canal at landside toe	Sutter Extension	N	N	Y
1675+27	LP_WUE	60"x72" RCP culvert	Butte County Drainage District No.1	N	Y	Y
1675+96	ROW_DUE	Utility pole in levee slope	TBD	N	Y	N
1675+96 to 1705+00	ROW_DUE	Utility poles and overhead powerlines at landside toe	TBD	N	Y	?
1697+95	ROW_DUE	Utility pole at levee toe	AT&T	N	Y	Y
1698+50	ROW_SE	Farm structure in close proximity to levee toe	Private	N	Y	N
1699+62	ROW_WUE	Propane tanks at levee toe	Private	N	Y	N
1706+82 to 1724+82	ROW_SE	Fence at waterside levee toe	Private	N	Y	Y
1722+60 to 1734+10	ROW_DUE	Overhead powerlines, utility poles in waterside slope	TBD	N	Y	N
1728+29	ROW_DUE	Utility pole at levee toe	PG&E	N	Y	Y
1730+00	ROW_SE	Residence in close proximity to levee toe	Private	N	Y	N
1734+00	ROW_DUE	Utility pole at levee toe	TBD	N	Y	?
1738+10	ROW_SE	Residence at waterside levee toe and driveway at levee crown	Private	N	Y	N
1741+32	LP_WUE	16" drainage pipe crossing	Butte County Drainage District No.1	N	Y	N
1756+27	LP_WUE	12" CM pipe crossing - abandoned	TBD	N	Y	N
1765+15	LP_WUE	12" steel pipe crossing	TBD	N	Y	N
1765+33	LP_WUE	12" plastic sleeved concrete irrigation pipe	Private	N	Y	Y
1767+60	LP_WUE	(2) 60" drainage pipes	Butte Water District, Sutter Extension Water District	N	Y	Y
1777+00	LP_WUE	24" CM drainage pipe	TBD	N	Y	Y
1781+50	ROW_SE	Farm structure in close proximity to levee toe	TBD	N	Y	N
1782+50	ROW_DUE	Utility pole at levee toe	TBD	N	Y	?
1784+70	LP_WUE	24" CM drainage pipe crossing	TBD	N	Y	Y
1785+25	LP_WUE	24" CM drainage pipe crossing	TBD	N	Y	Y

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1786+00 to 1787+40	ROW_SE	Residence and outbuilding in close proximity to levee toe	TBD	N	Y	?
1792+96	LP_WUE	24" CM drainage pipe crossing - abandoned	TBD	N	Y	Y
1799+43	LP_WUE	8" irrigation pipe crossing	Private	N	Y	Y
1809+65	LP_WUE	24" CM drainage pipe crossing	TBD	N	Y	Y
1813+70	LP_WUE	24" CM pipe crossing	TBD	Y	Y	Y
1816+63 to 1823+20	ROW_SE	Chain link fence at waterside and landside levee toe	City of Gridley	N	Y	Y
1816+63 to 1823+00	ROW_WUE	Sewer ponds in close proximity to waterside and landside levee toe	City of Gridley	N	Y	N
1818+72	LP_WUE	24" CM pipe crossing	City of Gridley	Y	Y	Y
1823+05	LP_WUE	12" cement coated and lined steel pipe through 24" CM pipe crossing	City of Gridley	Y	Y	Y
1834+41	LP_WUE	12" pipe through 24" CM pipe crossing	TBD	Y	Y	Y
1850+02	LP_WUE	18" cast iron sewer pipe crossing	City of Gridley	Y	Y	Y
1868+17	LP_WUE	18" drainage pipe crossing	Butte County Drainage District	Y	Y	N
1888+52	LP_WUE	8" steel pipe crossing	City of Gridley	Y	Y	Y
1889+97	ROW_DUE	Utility pole at levee toe	PG&E	N	Y	Y
1892+00	ROW_DUE	Utility pole in close proximity to levee toe	PG&E	N	Y	?
1893+70	LP_WUE	3/4" galvanized iron water pipe crossing	TBD	Y	Y	Y
1895+10	ROW_DUE	Utility pole at levee toe	PG&E	N	Y	?
1896+90 to 1900+20	ROW_SE	Residences in close proximity to landside levee toe	TBD	N	Y	?
1900+82 to 1906+60	ROW_DUE	Overhead powerlines, utility poles in landside slope	PG&E	Y	Y	N
1903+00 to 1957+00	ROW_WUE	Sutter Butte Main Canal at landside toe	Sutter Extension	N	N	Y
1903+96	LP_DUE	Guy wire over levee, guy pole at waterside of levee crown	PG&E	Y	Y	N
1906+50	LP_SE	Structure on levee crown	TBD	Y	Y	?
1906+58	LP_DUE	Utility pole at waterside of levee crown	PG&E	Y	Y	Y
1934+52	LP_WUE	36" CM pipe crossing	TBD	Y	Y	N
1947+33	LP_DUE	Utility pole at levee toe, 3" steel conduit crossing	TBD	Y	Y	N
1955+79	LP_SE	Residence on levee crown	Private	Y	Y	Y
1956+00 to 1958+50	LP_SE	Farm structures on levee slopes and at levee toes	TBD	Y	Y	N
1957+10	ROW_DUE	Utility pole on levee slope	TBD	Y	Y	N
1957+90	LP_WUE	24" CM irrigation pipe crossing - abandoned	TBD	Y	Y	Y
1961+11	LP_WUE	(2) 60" CM drainage pipe crossing	TBD	Y	Y	Y
2014+00	LP_WUE	7" steel pipe through 12" steel pipe crossing	Private	Y	Y	Y
2017+80	LP_WUE	22" reinforced concrete encased steel irrigation pipe crossing	TBD	Y	Y	Y
2020+81	ROW_SE	Large steel tank at levee toe	TBD	N	Y	N
2026+00	LP_WUE	12" reinforced concrete encased steel irrigation pipe crossing	TBD	Y	Y	Y
2032+50	LP_WUE	12" reinforced concrete encased steel irrigation pipe crossing	TBD	Y	Y	Y
2038+15	ROW_SE	Farm structure at levee toe	TBD	N	Y	?
2092+20	ROW_DUE	Utility pole in close proximity to levee toe	TBD	N	Y	?
2092+69	LP_DUE	Underground telephone cable crossing	TBD	Y	Y	N
2092+70	LP_WUE	5" irrigation pipe crossing - aluminum pipe	Private	Y	Y	Y
2038+00	ROW_DUE	Utility pole in levee slope	PG&E	N	Y	Y
2138+80	LP_WUE	2" galvanized steel irrigation pipe crossing	Private	N	Y	Y

**Color Coding Key-**

Green: Addressed by SBFCA or Local Maintaining Agency over time

Black: Complies with criteria or is not impacted by levee rehabilitation work.

Blue: Addressed by the levee rehabilitation contractor

Red: Addressed in advance of levee rehabilitation

STATION	TYPE	DESCRIPTION	OWNER	UTILITY DISRUPTED BY LEVEE WORK?	REMOVAL, RELOCATION, OR RETROFIT REQUIRED?	PERMITTED?
2142+00	ROW_DUE	Utility pole at levee toe	PG&E	N	Y	Y
2178+20 to 2185+50	ROW_DUE	Overhead telephone line, utility pole at levee toe	PT&T	N	Y	Y
2178+37	LP_WUE	16" steel irrigation pipe crossing	TBD	N	Y	Y
2185+20	ROW_SE	Farm structures at levee toe	Private	N	Y	?
2201+92	LP_WUE	10" reinforced concrete encased steel pipe crossing - abandoned	TBD	Y	Y	Y
2208+56	ROW_WUE	Ag well in close proximity to levee toe	Private	N	Y	N
2208+56 to 2215+00	ROW_DUE	Overhead powerline, utility pole in close proximity to levee toe	PG&E	N	Y	?
2239+50 to 2241+00	ROW_SE	Residence and outbuilding in close proximity to levee toe	Private	N	Y	N
2239+56	LP_WUE	24" CM drainage pipe crossing	TBD	Y	Y	Y
2243+75	ROW_SE	Outbuilding in close proximity to levee toe	Private	N	Y	N
2244+80	LP_WUE	24" CM drainage pipe crossing	TBD	Y	Y	Y
2248+70	LP_DUE	Underground telephone cable crossing	TBD	Y	Y	N
2250+11	ROW_SE	Concrete structure in levee slope	TBD	N	Y	N
2250+76	LP_WUE	24" CM irrigation pipe crossing	TBD	Y	Y	Y
2256+61	LP_WUE	24" reinforced concrete encased CM irrigation pipe crossing	TBD	Y	Y	Y
2257+15	LP_WUE	24" CM pipe crossing	TBD	Y	Y	Y
2260+90 to 2261+90	ROW_SE	Residence at levee toe	Private	N	Y	?
2260+95	LP_WUE	24" CM pipe crossing	TBD	Y	Y	Y
2261+11	ROW_DUE	Propane tank at levee toe	Private	N	Y	N
2261+56	ROW_DUE	Propane tank at levee toe	Private	N	Y	N
2261+60	ROW_SE	Retaining wall at levee toe	Private	N	Y	N
2262+65	LP_WUE	24" CM drainage pipe crossing	TBD	Y	Y	Y
2264+70 to 2268+45	ROW_DUE	Overhead powerline, utility poles at levee toe	PG&E	N	Y	N
2268+27	LP_WUE	24" reinforced concrete encased CM irrigation pipe crossing	TBD	Y	Y	Y
2274+56	LP_WUE	24" CM pipe crossing	TBD	Y	Y	N
2274+86	LP_WUE	24" reinforced concrete encased CM drainage pipe crossing	TBD	Y	Y	Y
2281+00 to 2282+50	ROW_SE	Residence and driveway in close proximity to levee toe	Private	N	Y	?
2282+25	ROW_SE	Farm structure at levee toe	Private	N	Y	?
2282+80	ROW_DUE	Utility pole at levee toe	PG&E	N	Y	N
2283+42	LP_WUE	24" reinforced concrete encased CM irrigation pipe crossing	TBD	Y	Y	Y
2283+62	LP_WUE	24" CM pipe crossing	TBD	Y	Y	Y
2352+96	LP_WUE	24" CM pipe crossing	TBD	Y	Y	Y
2353+04	LP_WUE	24" CM pipe crossing	TBD	Y	Y	Y
2359+05 to 2359+58	LP_SE	Sutter Butte Head Works structure	Biggs West Gridley Water District	Y	Y	Y
2367+90	LP_DUE	Utility pole in levee crown	TBD	Y	Y	?
2368+00 to 2369+70	LP_SE	Chain link fence on levee crown	TBD	Y	Y	?

# **APPENDIX**



LEVEE ENCROACHMENT LIST

APPENDIX A

	Levee Mile	SBFCA Phase	SBFCA Reach	SBFCA STA	Location (NAD 83)		Location (WGS 84)		Encroachment	Proposed Levee Improvement	Required Improvement Work	Type	cover	Elevations (NGVD 1988)			Water Surface Elevation (NGVD 1988)				CVFPB Permit Information			Owner Information				
					Northing	Easting	Latitude	Longitude						Invert of Pipe	Top of Pipe	Top of Levee	100 Yr	200 Yr	500 Yr	DWR 1957	Permit No.	Require Permittee to Relocate	Year	Name	Address	verified	Picture Taken	
					2371+00				Hamilton Bend Levee Transition																			
			D	41	2368+00				End Reach 41																			
1		D	41	2365+00			Not Verified		To construct After bay River Outlet and dredge tailing training dike.	Cutoff Wall		Struc								3930 and 5041	yes, cond 5	1965	Department of Water Resources		no	no		
2		D	41	2359+58	2,291,802.63	6,663,263.33	39°27'16.849"N	121°38'24.675"W	Old Sutter Butte Head Works Levee North	Cutoff Wall	Appears the structure will need to be removed and levee constructed through the area. MHM will include demo plan and levee civil will prepare plans for new levee.	IR(G)			138.88							part of orig O&M 1955	Biggs West Gridley Water District	1713 West Gridley Road, Gridley, CA	yes	yes		
3		D	41	2359+57	2,291,800.70	6,663,265.27	39°27'16.830"N	121°38'24.650"W	Old Sutter Butte Head Works North	Cutoff Wall		IR(G)			135.34	130.32	131.97	137.27	132.14			part of orig O&M 1955	Biggs West Gridley Water District	1713 West Gridley Road, Gridley, CA	yes	yes		
4		D	41	2359+07	2,291,752.42	6,663,249.77	39°27'16.353"N	121°38'24.550"W	Old Sutter Butte Head Works South	Cutoff Wall		IR(G)			135.30							part of orig O&M 1955	Biggs West Gridley Water District	1713 West Gridley Road, Gridley, CA	yes	yes		
5		D	41	2359+05	2,291,752.84	6,663,244.36	39°27'16.358"N	121°38'24.919"W	Old Sutter Butte Head Works Levee South	Cutoff Wall		IR(G)			138.69							part of orig O&M 1955	Biggs West Gridley Water District	1713 West Gridley Road, Gridley, CA	yes	yes		
		D	40/41	2359+00					Reach 40/41 Transition																			
6		D	40	2352+90	2,291,166.67	6,663,263.09	39°27'10.563"N	121°38'24.710"W	12 kv overhead electrical power line crossing	Cutoff Wall		EL	OH		139.23									Pacific Gas & Electric	One Tower, Spear Tower, San Francisco, CA 94105	yes	yes	
7		D	40	2352+80	Not Verified		Not Verified		24 Inch CM pipe through levee. Concrete saddle and apron with Calco Slide gate.	Cutoff Wall	Not sure if the pipeline meets the elevation requirement over 200 year WSEL. The type of pipe may or may not meet Title 23. Could not find, need to nothole to verify.	SD(G)		122.7 (USED)		130.08	131.75	137.03	131.86	pre-1955		part of orig O&M 1955			no	no		
8		D	40	2345+79	2,290,475.75	6,663,109.16			10 inch Iron Pipe through levee that appears to be abandoned	Cutoff Wall	Not sure if the pipeline meets the elevation requirement over 200 year WSEL. The type of pipe may or may not meet Title 23. Could not find, need to nothole to verify.	IR(P)	12.7	126.37	127.20	139.90	129.30	130.94	136.34	131.14					yes	yes		
		D	39/40	2319+00					Reach 39/40 Transition																			
9		D	39	2312+05	Not Verified		Not Verified		24 Inch CM pipe through levee. Concrete saddle and apron with Calco automatic drainage gate.	Cutoff Wall	Not sure if the pipeline meets the elevation requirement over 200 year WSEL. The type of pipe may or may not meet Title 23. Could not find, need to nothole to verify.	SD(G)		124.0 (USED)		124.25	125.63	132.37	127.85	pre-1955		part of orig O&M 1955			no	no		
		D	38/39	2303+00					Reach 38/39 Transition																			
10	0.0-0.3	D	38	2301+00	Not Verified		Not Verified		To excavate dredger tailings from the right bank of the Feather River. The tailings are to be excavated from an area approximately 100 feet landward of the landward levee toe. The application was deemed incomplete on 8.4.98	Cutoff Wall		Struc								16006	no issued	1992	Mathews Ready-mix, Inc	P.O. Box 386, Gridley, CA 95948				
		D	37/38	2290+00					Reach 37/38 Transition																			
		D	37	2285+00					Maintenance Area 07 / Hamilton Bend Levee Transition																			
1	11.68	D	37	2283+65	2,285,659.90	6,661,586.51			24 Inch CM pipe through levee. Concrete saddle and apron with Calco automatic drainage gate.	Cutoff Wall	Not sure if the pipeline meets the elevation requirement over 200 year WSEL. The type of pipe may or may not meet Title 23. Could not find, need to nothole to verify.	SD(G)	15.0	115.70	117.70	132.70	121.35	122.59	128.94	126.23	pre-1955		part of orig O&M 1955			no	no	
2	11.68	D	37	2283+44	2,285,640.25	6,661,593.28	39°26'15.978"N	121°38'46.270"W	24 Inch reinforced concrete encased CM irrigation pipe through levee. Slide Gate in 36 inch CM pipe riser on the waterside slope. 8 inch Irrigation pipe ran through existing pipe, pipe ends not exposed	Cutoff Wall	The pipeline does not meet title 23 requirements and will need a positive shut-off structure installed and automatic drainage gate on waterside of levee. Pumping up and over levee does not appear to be feasible. Should be part of 30 percent but not included.	IR(P)	17.3	113.40	115.40	132.70	121.34	122.58	128.93	126.22	pre-1955		part of orig O&M 1955			yes	yes	
3	11.66	D	37	2282+57	2,285,558.49	6,661,622.35	39°26'15.196"N	121°38'45.906"W	12 kv overhead electrical power line crossing	Cutoff Wall		EL	OH		132.97									Pacific Gas & Electric	One Tower, Spear Tower, San Francisco, CA 94105	yes	yes	
4	11.52	D	37	2274+95	2,284,812.04	6,661,741.46	39°26'07.730"N	121°38'44.408"W	24 Inch CM pipe through levee. Automatic drainage gate on waterside outlet, headwall on land side inlet. Both ends of the pipe have been cleared to operate.	Cutoff Wall	The pipeline does not meet title 23 requirements and will need a positive shut-off structure installed and automatic drainage gate on waterside of levee. Pumping up and over levee does not appear to be feasible. Should be part of 30 percent but not included.	SD(G)	17.8	112.30	114.30	132.11	120.83	122.04	128.24	125.98	pre-1955		part of orig O&M 1955			yes	yes	
5	11.52	D	37	2274+86	2,284,802.77	6,661,742.00			24 Inch CM reinforced concrete encased drainage pipe through levee. Slide Gate in 36 inch CM pipe riser on the waterside slope. Neither pipe end located or exposed.	Cutoff Wall	Not sure if the pipeline meets the elevation requirement over 200 year WSEL. The type of pipe may or may not meet Title 23. Could not find, need to nothole to verify.	SD(G)	21.8	108.30	110.30	132.10	120.83	122.04	128.24	125.97	pre-1956		part of orig O&M 1956			no	no	
6	11.39	D	37	2268+27	2,284,144.45	6,661,772.03	39°26'01.214"N	121°38'44.047"W	24 Inch reinforced concrete encased CM irrigation pipe through levee. Slide Gate in 36 inch CM pipe riser on the waterside slope with waterside outlet broken off and plugged.	Cutoff Wall	The pipeline does not meet title 23 requirements and will need a positive shut-off structure installed and automatic drainage gate on waterside of levee. Pumping could be option. Should be part of 30 percent but not included.	IR(G)	18.4	111.30	113.30	131.70	120.44	121.62	127.71	125.78	pre-1955		part of orig O&M 1955			yes	yes	
7	11.33	D	37	2265+50	2,283,868.22	6,661,784.45	39°25'58.464"N	121°38'43.916"W	12 kv overhead electrical power line crossing	Cutoff Wall		EL	OH		131.39									Pacific Gas & Electric	One Tower, Spear Tower, San Francisco, CA 94105	yes	yes	
8	11.28	D	37	2262+69	2,283,587.31	6,661,797.10	39°25'55.665"N	121°38'43.763"W	24 Inch CM drain pipe through levee with landside headwall. Automatic Drainage Gate on the waterside end with splash pan and saddle headwall.	Cutoff Wall	The pipeline does not meet title 23 requirements and will need a positive shut-off structure installed and automatic drainage gate on waterside of levee. Pumping up and over levee does not appear to be feasible. Should be part of 30 percent but not included.	SD(G)	18.0	110.85	112.85	130.80	120.21	121.39	127.42	125.62	pre-1955		part of orig O&M 1955			yes	yes	
9	11.27	D	37	2262+14	2,283,532.17	6,661,800.26	39°25'55.162"N	121°38'43.739"W	Road Across Levee North	Cutoff Wall		Road			131.10									County of Butte	7 County Center Drive, Oroville, CA 95965	yes	yes	
10	11.27	D	37	2261+90	2,283,505.66	6,661,801.21	39°25'54.900"N	121°38'43.729"W	Road Across Levee South	Cutoff Wall		Road			131.20									County of Butte	7 County Center Drive, Oroville, CA 95965	yes	yes	
11	11.26	D	37	2261+56	2,283,474.37	6,661,801.73	39°25'54.590"N	121°38'43.723"W	Propane tank at landside toe	Cutoff Wall					130.73											yes	yes	
12	11.25	D	37	2261+11	2,283,429.45	6,661,804.82	39°25'54.146"N	121°38'43.686"W	Propane tank at landside toe	Cutoff Wall					130.31												yes	yes
13	11.24	D	37	2260+55	2,283,374.22	6,661,809.27			24 Inch CM pipe through levee. Concrete saddle and apron with Calco automatic drainage gate.	Cutoff Wall	Not sure if the pipeline meets the elevation requirement over 200 year WSEL. The type of pipe may or may not meet Title 23. Could not find, need to nothole to verify.	SD(G)	18.1	110.20	112.20	130.30	120.17	121.35	127.37	125.57	pre-1955		part of orig O&M 1955			no	no	
	11.22	D	36/37	2259+00					Reach 36/37 Transition																			
14	11.18	D	36	2256+94	2,283,026.77	6,661,894.43			24 Inch CM pipe through levee. Concrete saddle and apron with Calco automatic drainage gate.	Cutoff Wall	Not sure if the pipeline meets the elevation requirement over 200 year WSEL. The type of pipe may or may not meet Title 23. Could not find, need to nothole to verify.	SD(G)	17.1	111.00	113.00	130.10	120.10	121.29	127.29	125.47	pre-1955		part of orig O&M 1955			no	no	
15	11.17	D	36	2256+71	2,283,007.16	6,661,905.92	39°25'49.881"N	121°38'42.345"W	24 Inch reinforced concrete encased CM irrigation pipe through levee. Slide Gate in 36 inch CM pipe riser on the waterside slope. Neither pipe end located or exposed.	Cutoff Wall	The pipeline does not meet title 23 requirements and will need a positive shut-off structure installed and automatic drainage gate on waterside of levee. Pumping could be option but not enough information available of the pump system. Should be part of 30 percent but not included.	IR(G)	19.1	109.00	111.00	130.10	120.09	121.29	127.29	125.46	pre-1955		part of orig O&M 1955			yes	yes	
16	11.17	D	37	2270+00			Not Verified		To construct a 50 x 100 foot walnut processing building in the right overflow area of the Feather River	Cutoff Wall		Struc								12787	yes, cond. 13	1979	Rio Bonito Ranch	Route 1, Box 111, Biggs, CA 95917	no	no		
17	11.05	D	36	2250+76	2,282,559.01	6,662,297.09	39°25'45.524"N	121°38'37.456"W	24 Inch CM irrigation pipe through levee. Slide gate in 36 inch CM pipe riser on the waterside slope and slide gate in 48 inch RCP standpipe on landside toe.	Cutoff Wall	The pipeline does not meet title 23 requirements and will need a positive shut-off structure installed and automatic drainage gate on waterside of levee. Pumping could be option but not enough information available of the pump system. Should be part of 30 percent but not included.	IR(G)	16.4	111.50	113.50	129.90	119.97	121.18	127.15	125.29	pre-1955		part of orig O&M 1955			yes	yes	
18	11.04	D	36	2250+140	2,282,509.99	6,662,339.63	39°25'45.938"N	121°38'36.916"W	Concrete structure in waterside slope of levee Removed	Cutoff Wall		?			130.18											yes	yes	



LEVEE ENCROACHMENT LIST

APPENDIX A

	Levee Mile	SBFCA Phase	SBFCA Reach	SBFCA STA	Location (NAD 83)		Location (WGS 84)		Encroachment	Proposed Levee Improvement	Required Improvement Work	Type	cover	Elevations (NGVD 1988)			Water Surface Elevation (NGVD 1988)				CVFPP Permit Information			Owner Information		verified	Picture Taken
					Northing	Easting	Latitude	Longitude						Invert of Pipe	Top of Pipe	Top of Levee	100 Yr	200 Yr	500 Yr	DWR 1957	Permit No.	Require Permittee to Relocate	Year	Name	Address		
19	11.02	D	36	2248+30	2,282,389.90	6,662,473.42	39°25'44.066"N	121°38'35.638"W	Underground telephone cable through levee at south side of paved road over levee	Cutoff Wall	Not sure if the conduit meets title 23 or 200 WSEL requirements.	TL				130.10	119.92	121.14	127.10	125.23					yes	yes	
20	10.96	D	36	2245+52	2,282,232.77	6,662,702.59			24 Inch CM drain pipe through levee. Automatic Drainage Gate on the waterside end buried and not located.	Cutoff Wall	Not sure if the pipeline meets the elevation requirement over 200 year WSEL. The type of pipe may or may not meet Title 23. Could not find, need to nothole to verify.	SD(G)	15.1	112.99	114.99	130.10	119.87	121.09	127.04	125.15	pre-1955		part of orig O&M 1955		no	no	
21	10.84	D	36	2239+66	2,281,676.83	6,662,766.65	39°25'36.688"N	121°38'31.483"W	24 Inch CM drain pipe through levee. Concrete headwall at both toes and automatic Drainage Gate in 36 inch concrete standpipe on berm. House near land toe, land end not located it could possibly be in house back yard.	Cutoff Wall	The pipeline does not meet title 23 requirements and will need a positive shut-off structure installed and automatic drainage gate on waterside of levee. Pumping up and over levee does not appear to be feasible. Should be part of 30 percent but not included.	SD(G)	15.8	111.90	113.90	129.70	119.75	120.99	126.91	124.98	pre-1955		part of orig O&M 1955		yes	yes	
	10.29	D	35/36	2224+00					Reach 35/36 Transition																		
22	10.15	D	35	2216+71	2,280,223.64	6,663,692.84	39°25'22.387"N	121°38'19.785"W	12 Kv power line crossing of levee. One pole 215 feet water ward of levee toe with overhead clearance of 27 feet.	Cutoff Wall		EL	OH			127.30					6221	yes, cond 5	1968	Pacific Gas & Electric	One Tower, Spear Tower, San Francisco, CA 94105	yes	yes
23	10.24	D	35	2208+56	2,279,495.37	6,664,025.97	39°25'15.175"N	121°38'15.577"W	Pump on the landside setup to pump only to land side of levee, no standpipe, no permanent pipe over levee	Cutoff Wall		IR(G)				125.50	118.36	119.67	125.53	122.99				yes	yes		
24	10.12	D	35	2201+87	2,279,440.81	6,664,690.55	39°25'14.617"N	121°38'07.169"W	Abandoned 10 inch reinforced concrete encased steel irrigation pipe through levee. Slide gate in 24 inch concrete standpipe at the waterside toe. Pipe ends not located or exposed.	Cutoff Wall	Not sure if the abandonment meets title 23 requirements. Pipe may need to be properly abandoned or completely removed.	IR(G)	13.1	111.97	112.80	125.90	117.36	118.68	124.42	122.10	pre-1955		part of orig O&M 1955		yes	yes	
25	9.82	D	35	2182+45	2,277,864.11	6,665,182.53	39°24'59.006"N	121°38'00.922"W	Power pole at land side toe	Cutoff Wall		EL	OH			124.34									yes	yes	
		D	34/35	2182+00					Reach 34/35 Transition																		
26	9.67 - 9.81	D	34	2178+48	2,277,831.66	6,665,565.26	39°24'58.671"N	121°37'56.047"W	To replace an existing buried telephone cable with aerial cable crossing of the right bank of the Feather River at the end of Cherry Road. The aerial telephone will be placed on an existing PG&E poles. Due to two right angle bends in the levee, the overhead cable will cross the levee crown at two locations within the extension	2138+00 to 2182+00, No Rehabilitation Required		EL	OH			125.00					9076 and 12663	yes, cond 13	1979 and 1979	Pacific Telephone and Telegraph Company	1426 Howe Avenue, Suite 50, Sacramento, CA 95825	no	no
27	9.66	D	34	2178+39	2,277,825.68	6,665,571.75	39°24'58.571"N	121°37'56.003"W	16 inch steel irrigation pipe through levee. Slide gate in 36 inch concrete standpipe at the waterside toe. Concrete distribution box at the landside toe.	2138+00 to 2182+00, No Rehabilitation Required	The pipeline does not meet title 23 requirements and will need a positive shut-off structure installed and automatic drainage gate on waterside of levee. Pumping could be option but not enough information available on pump.	IR(G)	13.2	110.07	111.40	124.60	114.66	115.80	120.42	119.64	pre-1955		part of orig O&M 1955		yes	yes	
28	8.75	D	34	2138+22	2,275,157.46	6,664,140.19	39°24'32.295"N	121°38'14.342"W	Power line crossing of levee and guy wire	2122+00 to 2138+00, Cutoff Wall		EL	OH			123.64					5865	yes, cond 5	1969	Pacific Gas & Electric	One Tower, Spear Tower, San Francisco, CA 94105	yes	yes
29	8.73	D	34	2127+33	Not Verified		Not Verified		To authorize an existing 2 inch irrigation pipeline through the right bank of the Feather Rivers. Removable pipe over levee found at 2120+50	2122+00 to 2138+00, Cutoff Wall	Not sure if the pipeline meets the elevation requirement over 200 year WSEL. The type of pipe may or may not meet Title 23. Could not find, need to nothole to verify.	IR(P)	2.0	122.1 (USED)		109.61	110.62	114.58	113.41	14200	yes, cond 13	1985	Clinton W. Moffitt	2770 Larkin Road, Biggs, CA 95917	no	no	
	8.41	D	33/34	2122+00					Reach 33/34 Transition																		
30	8.10	D	33				Not Verified		To plant a Kiwi vineyard parallel to the direction of river flow with a minimum row spacing of 4.9 meters and 2.4 meters spacing within each row.	Cutoff Wall		Trees									13504	yes, cond 13	1982	Benjamin L. Couberly	7240 Suretre Lane, Loomis, CA 95650	no	no
31	7.85	D	33	2092+90	2,272,415.47	6,665,972.41	39°24'04.914"N	121°37'51.140"W	Underground telephone cable through levee on north side of paved road over the top of the levee.	Cutoff Wall		TL				120.52	109.60	110.60	114.56	113.40				yes	yes		
32	7.85	D	34	2092+37					Power line crossing of levee on south side of road	2122+00 to 2138+00, Cutoff Wall		EL	OH			123.64							Pacific Gas & Electric	One Tower, Spear Tower, San Francisco, CA 94105	yes	yes	
33	7.81	D	33	2092+20	Not Verified		Not Verified		5" aluminum irrigation pipe through levee. Pipeline has been removed	Cutoff Wall	Not sure if the pipeline meets the elevation requirement over 200 year WSEL. The type of pipe may or may not meet Title 23. Could not find, need to nothole to verify.	IR(P)									5520	permit denied	1966	John Kucek	1118 Almond Avenue, Biggs, CA 95917	n/a	n/a
34	7.69	D	33	2084+03	2,271,531.48	6,666,011.72			5" x 0.25" wall steel irrigation line through levee	Cutoff Wall	Not sure if the pipeline meets the elevation requirement over 200 year WSEL. The type of pipe may or may not meet Title 23. Could not find, need to nothole to verify.	IR(P)	2.2	116.28	116.70	118.90	108.96	109.98	113.96	112.72	17895 and 17895-A	yes, cond 20	2005	John Kucek	1118 Almond Avenue, Biggs, CA 95917	no	no
35	6.75	D	33	2037+15	2,268,425.64	6,666,455.64	39°23'25.666"N	121°37'45.190"W	115 kv pole crossing of levee.	Cutoff Wall		EL	OH			114.41					12901		1980	Pacific Gas & Electric	One Tower, Spear Tower, San Francisco, CA 94105	yes	yes
36	6.88	D	33	2032+90	Not Verified		Not Verified		12 inch reinforced concrete encased steel irrigation pipe through levee. Slide gate in 24 inch concrete standpipe at waterside toe.	Cutoff Wall	Not sure if the pipeline meets the elevation requirement over 200 year WSEL. The type of pipe may or may not meet Title 23. Could not find, need to nothole to verify.	IR(G)	14.0			105.35	106.23	109.77	109.67	pre-1955		part of orig O&M 1955		no	no		
37	6.74	D	33	2026+40	Not Verified		Not Verified		12 inch reinforced concrete encased steel irrigation pipe through levee. Slide gate in 24 inch concrete standpipe at waterside toe.	Cutoff Wall	Not sure if the pipeline meets the elevation requirement over 200 year WSEL. The type of pipe may or may not meet Title 23. Could not find, need to nothole to verify.	IR(G)	13.5			104.72	105.59	109.10	109.36	pre-1955		part of orig O&M 1955		no	no		
38	6.63	D	33	2020+81	2,267,049.65	6,665,590.75	39°23'12.100"N	121°37'56.278"W	Large steel tank on land side at toe of levee	Cutoff Wall						114.01									yes	yes	
39	6.59	D	33	2018+00			Not Verified		To retain a spur levee between the right bank project levee and the bank of the low water channel, a distance of approximately 600 feet. The spur levee is normal to the project levee and to the direction of the overbank flow. The levee varies from 3 to 6 feet above ground surface	Cutoff Wall		Struc									9626	no	1974	Jack Mariani Farms, Inc.	25000 El Camino Real, Santa Clara, CA 95051	no	no
40	6.58	D	33	2017+78	2,266,812.83	6,665,317.53	39°23'09.770"N	121°37'59.770"W	22 inch reinforced concrete encased steel irrigation pipe through levee. Slide gate in 36 inch concrete standpipe at waterside toe.	Cutoff Wall	The pipeline does not meet title 23 requirements and will need a positive shut-off structure installed and automatic drainage gate on waterside of levee. Pumping could be option but not enough information available of the pump system. Should be part of 30 percent but not included.	IR(G)	13.9	97.87	99.70	113.60	104.08	104.92	108.35	109.09	pre-1955		part of orig O&M 1955		yes	yes	
41	6.34	D	33	2005+20	Not Verified		Not Verified		7 inch steel pipe sleeved through the existing 12 inch steel pipe through levee. The annular space between the two pipes is plugged with concrete on both ends. Slide gate in concrete risers on both ends.	Cutoff Wall	Not sure if the pipeline meets the elevation requirement over 200 year WSEL. The type of pipe may or may not meet Title 23. Could not find, need to nothole to verify.	IR(G)	AG	101.1 (USED)		103.36	104.17	107.50	108.61	Pre-1955 and 4591	yes, cond 5	Pre-1955 for original pipe and 1965 for sleeve	Jack Mariani Farms, Inc.	Route 1, Box 54, Larkin Road, Biggs, CA 95917	no	no	
42	6.14	D	33	2007+00			Not Verified		To construct 1255 feet of spur levee from west project levee to the Feather River west bank.	Cutoff Wall		Struc									4963	yes, cond 5	1974	Boeger River Ranch	Route 1, Box 265, Gridley, CA	no	no
43	5.10- 6.15	D	33	1995+00			Not Verified		To authorize an existing walnut orchard on the right bank overflow area of the Feather River/	Cutoff Wall											15613	no	1991	William H. Cilker	16075 Matilija Drive, Los Gatos, CA 95030		
	5.93	D	32/33	1989+00					Reach 32/33 Transition																		
44	5.60- 6.15	D	32	1970+00			Not Verified		To interplant trees in an existing pear orchard on the right bank overflow area of the Feather River	Cutoff Wall		Struc									6004 and 6053	yes, cond 5	1968	W.H. Cilker	16075 Matilija Drive, Los Gatos, CA 95030	no	no
45	5.50	D	32	1961+03	2,264,727.12	6,660,794.20	39°22'49.332"N	121°38'57.487"W	Two 60 inch CM drainpipes through levee. Automatic drainage gates on waterside end and concrete headwalls on both ends.	Cutoff Wall	The pipeline does not meet title 23 requirements and will need a positive shut-off structure installed and automatic drainage gate on waterside of levee. Pumping up and over levee does not appear to be feasible. Should be part of 30 percent but not included.	SD(G)	20.0	85.70	90.70	110.70	101.68	102.54	105.86	106.12	pre-1955		part of orig O&M 1955		yes	yes	
	5.38	D	31/32	1958+00					Reach 31/32 Transition																		
46	5.44	D	31	1957+75	2,264,471.77	6,660,429.36	39°22'46.822"N	121°39'02.146"W	To construct a earthen Berm, equipment storage shed, labor apartment and multiple-purpose building on the landward berm of the levee. The 32 foot by 34 foot building will be located adjacent to an existing shop building. The proposed building will be located on an existing earth fill located on landward slope of the levee and will be 10 feet from the toe of the levee.	Cutoff Wall		Struc				110.67					5392 and 5709, 5709A	yes, cond 5	1966 and 1967	William H. Cilker	16075 Matilija Drive, Los Gatos, CA 95030	yes	yes



LEVEE ENCROACHMENT LIST

APPENDIX A

	Levee Mile	SBFCA Phase	SBFCA Reach	SBFCA STA	Location (NAD 83)		Location (WGS 84)		Encroachment	Proposed Levee Improvement	Required Improvement Work	Type	cover	Elevations (NGVD 1988)			Water Surface Elevation (NGVD 1988)				CVFPB Permit Information			Owner Information		verified	Picture Taken
					Northing	Easting	Latitude	Longitude						Invert of Pipe	Top of Pipe	Top of Levee	100 Yr	200 Yr	500 Yr	DWR 1957	Permit No.	Require Permittee to Relocate	Year	Name	Address		
47	5.40	D	31	1956+20	2,264,512.56	6,660,422.66			24 inch CM irrigation pipe through levee. Slide gate in concrete riser pipe on landside berm. Pipe runs under mobile home.	Cutoff Wall	Not sure if the pipeline meets the elevation requirement over 200 year WSEL. The type of pipe may or may not meet Title 23. Could not find, need to nothole to verify.	IR(G)	11.0	97.00	99.00	110.00	101.64	102.50	105.81	105.96	pre-1955		part of orig O&M 1955			no	no
48	5.40	D	31	1956+10					Modular Home Located on the Levee Top	Cutoff Wall																	
49	5.10	D	31	1947+33	2,263,626.47	6,660,477.81	39°22'38.465"N	121°39'01.570"W	Service pole 10' from water side toe with 3" steel conduit through top of levee	Cutoff Wall		EL				110.18										yes	yes
50	4.98	D	31	1934+54	2,262,349.20	6,660,521.29	39°22'25.839"N	121°39'01.079"W	24 inch steel pipe through levee. Slide gate in concrete box on the water side slope. (Corps list pipe as 36 inch CMP)	Cutoff Wall	The pipeline does not meet title 23 requirements and will need a positive shut-off structure installed and automatic drainage gate on waterside of levee. Pumping up and over levee does not appear to be feasible. Should be part of 30 percent but not included.	SD(G)	17.5	89.90	91.90	109.40	101.42	102.28	105.57	105.14						yes	yes
51	4.44	D	31	1906+58			Not Verified		To authorize construction of stream gauging station on the right bank levee of the Feather River	Cutoff Wall		Struc				109.76					5730	yes, cond 5	1967	Department of Water Resources	P.O. 9137, Sacramento, CA 95816	no	no
52	4.44	D	31	1906+58	2,259,711.16	6,661,315.13	39°21'59.734"N	121°38'51.100"W	12 kv Pole line over levee. One pole 10 foot landward and one pole on levee for DWR and service electrical to water side building	Cutoff Wall		EL	OH			109.76					5857	yes, cond 5	1967	Pacific Gas & Electric	One Tower, Spear Tower, San Francisco, CA 94105	yes	yes
53	4.32	D	31	1903+96	2,259,482.14	6,661,442.38	39°21'57.465"N	121°38'49.491"W	To extend 3 phase No. 4 ACSR 12 kv pole line across right bank levee of the Feather River. Line to provide power to new pump for Roy Mathews	Cutoff Wall		EL	OH			107.72					5351	yes, cond 5	1966	Pacific Gas & Electric	One Tower, Spear Tower, San Francisco, CA 94105	yes	yes
54	4.30	D	31	1902+19	2,259,338.81	6,661,543.33	39°21'56.045"N	121°38'48.213"W	Oroville-Gridley Highway Bridge Upstream	Cutoff Wall		Bridge				111.65					4123		1964	County of Butte	7 County Center Drive, Oroville, CA 95965	yes	yes
55	4.3-5.3	D	31				Not Verified		Open channel on land side of levee at toe	Cutoff Wall		IR(G)														yes	yes
	4.30	D	30/31	1902+00					Reach 30/31 Transition																		
56	4.30	D	30	1901+79	2,259,317.57	6,661,574.18	39°21'55.834"N	121°38'47.821"W	Oroville-Gridley Highway Bridge Downstream	Cutoff Wall		Bridge				110.16					4123	yes, cond 5	1964	County of Butte	7 County Center Drive, Oroville, CA 95965	yes	yes
57	4.25	D	30	1900+82	2,259,239.50	6,661,630.24	39°21'55.060"N	121°38'47.111"W	Power pole at land side toe	Cutoff Wall		EL	OH			106.55								Pacific Gas & Electric	One Tower, Spear Tower, San Francisco, CA 94105	yes	yes
58	4.17	D	30	1893+60	Not Verified		Not Verified		3/4 inch galvanized iron waterline through levee	Cutoff Wall	Not sure if the abandonment meets title 23 requirements. Pipe may need to be properly abandoned or completely removed. Could not find to verify.	WL	3.1 rd	103.0 (USED)			98.34	99.40	103.31	102.01	pre-1955		part of orig O&M 1955			no	no
59	4.16	D	30	1893+20	Not Verified		Not Verified		6 inch concrete encased cast iron sewer pipe through levee	Cutoff Wall	plans indicate they have been removed	WW	13.9 rd	92.5 (USED)							pre-1955		part of orig O&M 1955				
60	4.15	D	30	1892+60	Not Verified		Not Verified		6 inch concrete encased cast iron sewer pipe through levee	Cutoff Wall	plans indicate they have been removed	WW	13.8 rd	92.5 (USED)							pre-1955		part of orig O&M 1955				
61	4.14	D	30	1892+20	Not Verified		Not Verified		Two 4 inch concrete encased cast iron sewer lines through the levee. The Discharge end connected to the CM pump house at the landside toe of the bow levee.	Cutoff Wall	plans indicate they have been removed	WW(P)	1.5 rd	93.0 (USED)							pre-1955		part of orig O&M 1955				
62	4.11	D	30	1892+89	2,258,542.19	6,662,052.68	39°21'49.413"N	121°38'42.751"W	Pole line over the levee.	Cutoff Wall		EL	OH			106.57								Pacific Gas & Electric	One Tower, Spear Tower, San Francisco, CA 94105	yes	yes
63	4.10	D	30	1891+25	2,258,506.36	6,662,137.72	39°21'48.132"N	121°38'42.351"W	Pole line over the levee.	Cutoff Wall		EL	OH			106.06										yes	yes
64	4.10	D	30	1888+70	2,258,285.10	6,662,367.26	39°21'46.416"N	121°38'39.013"W	Pole Line over the levee. 1 pole 10 feet from toe.	Cutoff Wall		EL	OH			106.32					5351		1966	Pacific Gas & Electric	One Tower, Spear Tower, San Francisco, CA 94105	yes	yes
65	3.38-4.25	D	30	1888+50	2,258,298.89	6,662,410.71	39°21'45.734"N	121°38'37.237"W	To expand an existing waste water treatment facility on the left bank of the Feather River and to install a 6 inch force main along the right bank levee of the Feather River/	Cutoff Wall	Not sure if the abandonment meets title 23 requirements. Pipe may need to be properly abandoned or completely removed. Could not find to verify.	WW(P)	2.5 rd	103.0 (USED)		106.44	98.12	99.11	103.00	101.70	12103A	yes, cond 13	1979	City of Gridley	685 Kentucky Street, Gridley, CA 95948	yes	yes
66	3.95	D	30	1887+29	2,258,210.65	6,662,463.86	39°21'44.858"N	121°38'36.548"W	12 kv power line crossing of levee	Cutoff Wall		EL	OH			106.57										yes	yes
67	3.80	D	30	1868+17	Not Verified		Not Verified		Butte County Drainage District No. 1. An 18-Inch pipe through Levee.	Cutoff Wall	Not sure if the abandonment meets title 23 requirements. Pipe may need to be properly abandoned or completely removed. Should be part of 30 percent but not included.	SD(G)					96.11	97.09	101.11	100.10				Butte County Drainage District	7 County Center Drive, Oroville, CA 95965	yes	yes
68	3.35	D	30	1849+80	2,255,332.08	6,664,793.22	39°21'16.403"N	121°38'07.290"W	18 inch cast iron sewer pipe through levee. Concrete thrust block for cutoff walls on both shoulders. Siphon breaker in concrete pipe riser on the waterside shoulder.	Cutoff Wall	Not sure if the abandonment meets title 23 requirements. Pipe may need to be properly abandoned or completely removed. Should be part of 30 percent but not included.	WW(P)	2.8 rd			103.50	94.96	95.93	100.03	99.20	5722	yes, cond 5	1967	City of Gridley	685 Kentucky Street, Gridley, CA 95948	yes	yes
69	3.04	D	30	1834+42	2,254,466.85	6,665,951.72	39°21'07.717"N	121°37'52.331"W	24 inch CM drainage pipe through levee. Automatic drainage gate on waterside toe. 12 inch pipe sleeved through 24 inch pipe.	Cutoff Wall	The pipeline does not meet title 23 requirements and will need a positive shut-off structure installed and automatic drainage gate on waterside of levee. Pumping up and over levee does not appear to be feasible. Should be part of 30 percent but not included.	IR (G)	12.5	88.00	90.00	102.50	93.69	94.66	98.93	97.61	pre-1955		part of orig O&M 1955			yes	yes
70	2.82	D	30	1823+01	2,253,380.39	6,666,199.22	39°20'56.968"N	121°37'49.236"W	24 Inch CM pipe through levee. 36 inch RCP riser on the waterside slope. Same pipe as below	Cutoff Wall	The pipeline does not meet title 23 requirements and will need a positive shut-off structure installed and automatic drainage gate on waterside of levee. Pumping up and over levee does not appear to be feasible. Should be part of 30 percent but not included.	SD(G)	21.8	77.60	79.60	101.40	93.46	94.43	98.68	96.94	pre-1955		part of orig O&M 1955			yes	yes
71	2.82	D	30	1823+01	2,253,380.39	6,666,199.22	39°20'56.968"N	121°37'49.236"W	12 Inch cement coated and lined steel sewer pipe sleeved through the existing 24 inch CM pipe. Annular space pressure grouted.	Cutoff Wall	The pipeline does not meet title 23 requirements and will need a positive shut-off structure installed and automatic drainage gate on waterside of levee. Pumping up and over levee does not appear to be feasible.	WW(G)	21.8	77.60	79.60	101.40	93.46	94.43	98.68	96.94	5722	yes, cond 5	1967	City of Gridley	685 Kentucky Street, Gridley, CA 95948	yes	yes
72	2.74	D	30	1818+72	2,252,948.28	6,666,209.81	39°20'52.697"N	121°37'49.258"W	24 Inch CM pipe through levee. Slide gate in 36 inch CM riser on the waterside slope.	Cutoff Wall	The pipeline does not meet title 23 requirements and will need a positive shut-off structure installed and automatic drainage gate on waterside of levee. Pumping up and over levee does not appear to be feasible. Should be part of 30 percent but not included.	WW(G)	25.2	74.10	76.10	101.30	93.36	94.33	98.59	96.69	pre-1955		part of orig O&M 1955	City of Gridley	685 Kentucky Street, Gridley, CA 95948	yes	yes
73	2.7-2.82	D	30				Not Verified		Sewer Ponds located within 30' of both toes of the levee	Cutoff Wall																yes	yes
74	2.70	D	30	1816+63	2,252,738.86	6,666,205.04	39°20'50.627"N	121°37'49.195"W	City of Gridley. To install approximately 660 feet of chain link fence on the waterside toe and to authorize approximately 600 feet of 6 foot high chain link fence on the landside toe of the right bank levee of the Feather River.	Cutoff Wall		Fence				101.58					16912	yes, cond 17	1999	City of Gridley	685 Kentucky Street, Gridley, CA 95948	yes	yes
75	2.63-2.75	D	30	1815+00			Not Verified		City of Gridley. To operate a sand borrow pit and gravel borrow pit within the Feather River Designated Floodway, located on the right bank overflow of the Feather River.	Cutoff Wall		Struc									12614	yes, cond 13	1987	City of Gridley	685 Kentucky Street, Gridley, CA 95948	yes	yes
76	2.60	D	30	1813+70	Not Verified		Not Verified		24 Inch CM pipe through levee. Concrete saddle and apron with Calco Slide gate.	Cutoff Wall	Not sure if the pipeline meets the elevation requirement over 200 year WSEL. The type of pipe may or may not meet Title 23. Could not find, need to nothole to verify.	SD(G)		93.5 (USED)			93.25	94.22	98.48	96.39			part of orig O&M 1955				
		D	29/30	1813+33					Reach 29/30 Transition																		

LEVEE ENCROACHMENT LIST

APPENDIX A

	Levee Mile	SBFCA Phase	SBFCA Reach	SBFCA STA	Location (NAD 83)		Location (WGS 84)		Encroachment	Proposed Levee Improvement	Required Improvement Work	Type	cover	Elevations (NGVD 1988)			Water Surface Elevation (NGVD 1988)				CVFPB Permit Information			Owner Information			
					Northing	Easting	Latitude	Longitude						Invert of Pipe	Top of Pipe	Top of Levee	100 Yr	200 Yr	500 Yr	DWR 1957	Permit No.	Require Permittee to Relocate	Year	Name	Address	verified	Picture Taken
77	2.55	D	29	1809+65	2,252,095.81	6,666,415.94	39°20'44.262"N	121°37'46.526"W	24 Inch CM pipe through levee. Automatic drainage gate on waterside propped open and concrete headwall on land side.	No Rehabilitation Required	The pipeline is appears to be very close to meeting the elevation requirement over 200 year WSEL. type of pipe might not meet Title 23. We will need a positive shut-off structure installed and automatic drainage gate on waterside of levee. Pumping up and over levee does not appear to be feasible. Should be part of 30 percent but not included.	SD(G)	4.5	94.90	96.90	101.40	93.15	94.12	98.39	96.15	pre-1955		part of orig O&M 1955			yes	yes
78	2.50-2.70	D	29	1809+00			Not Verified		Existing Prune and Walnut Orchard on right bank overflow area of the Feather River	No Rehabilitation Required		Trees									7782	yes, cond 13	1971	W.L. Boyd	Route 1, Box 578, Gridley, CA 95948	no	no
79	2.35	D	29	1799+44	2,251,083.54	6,666,333.91	39°20'34.260"N	121°37'47.640"W	8"x .25" thick wall with exterior taped wrapped to a minimum thickness of 30 mil. The irrigation pipeline irrigation pipeline through levee	No Rehabilitation Required	Not sure if the pipeline meets the elevation requirement over 200 year WSEL. The type of pipe may or may not meet Title 23. Need to pothole to verify.	IR(P)	2.1	97.83	98.50	100.60	92.87	93.83	98.12	95.58	17213	yes, cond 35	2000	Robert C. Waller	585 Cowee Avenue, Gridley, CA 95948	yes	yes
80	2.20	D	29	1792+96	2,250,482.00	6,666,094.79	39°20'28.324"N	121°37'50.715"W	Abandoned 24 inch CM drainage pipe through levee. Automatic drainage gate on waterside and concrete distribution box at waterside toe. Land side end of the pipe is not located	No Rehabilitation Required	Not sure if the abandonment meets title 23 requirements. Pipe may need to be properly abandoned or completely removed. Meets 30 percent design criteria not included.	SD(G)	10.2	87.40	89.40	99.60	92.50	93.47	97.81	95.17	pre-1955		part of orig O&M 1955			yes	yes
81	2.11-2.50	D	29	1790+00			Not Verified		To authorize leveling and planting walnut and peach orchard on right overflow area of Feather River	No Rehabilitation Required		Trees									6622	no	1973	Robert C. Waller	585 Cowee Avenue, Gridley, CA 95948	no	no
82	2.10	D	29	1785+55	Not Verified		Not Verified		24 Inch CM drain pipe through levee. Concrete Headwall at land side. Automatic Drainage Gate on waterside with splash pad.	No Rehabilitation Required	The pipeline is appears to be very close to meeting the elevation requirement over 200 year WSEL. type of pipe might not meet Title 23. We will need a positive shut-off structure installed and automatic drainage gate on waterside of levee. Pumping up and over levee does not appear to be feasible. Should be part of 30 percent but not included.	SD(G)				100.00	92.05	93.04	97.50	94.89	pre-1955		part of orig O&M 1955			yes	yes
83	2.10	D	29	1785+24	2,249,771.67	6,665,793.11			24 Inch CM drain pipe through levee. Concrete Headwall at land side. Automatic Drainage Gate on waterside with splash pad.	No Rehabilitation Required	Not sure if the pipeline meets the elevation requirement over 200 year WSEL. The type of pipe may or may not meet Title 23. Could not find, need to pothole to verify.	SD(G)	5.7	92.30	94.30	100.00	92.04	93.03	97.49	94.88	pre-1955		part of orig O&M 1955			no	no
84	1.94	D	29	1777+00	2,249,094.57	6,665,330.01	39°20'14.641"N	121°38'00.521"W	24 Inch CM drain pipe through levee. Concrete Headwall at land side. Automatic Drainage Gate on Waterside.	No Rehabilitation Required	The pipeline is appears to meet the elevation requirement over 200 year WSEL. type of pipe might not meet Title 23. We will need a positive shut-off structure installed and automatic drainage gate on waterside of levee. Pumping up and over levee does not appear to be feasible. Should be part of 30 percent but not included.	SD(G)	4.5	93.40	95.40	99.90	91.71	92.71	97.27	94.72	pre-1955		part of orig O&M 1955			yes	yes
85	1.77-2.12	D	28	1770+00			Not Verified		To authorize existing walnut trees, located on the right bank of the Feather River.	Address Sutter Butte Main Canal. Rehabilitation Work TBD		Trees									12388	yes, cond 13	1978	Robert Waller	Route 1, Box 920, Gridley, CA 95948	no	no
	1.79	D	28/29	1769+31					Reach 28/29 Transition																		
86	1.76	D	28	1767+67	2,248,176.53	6,665,251.10	39°20'05.570"N	121°38'01.573"W	Cox Spillway. North 60 Inch drain pipes through Levee. Slide Gates in 78 inch CM pipe wells on the waterside slope. Concrete bulkhead on both ends. Reinforced concrete spillway at the waterside end.	Address Sutter Butte Main Canal. Rehabilitation Work TBD	The pipeline does not meet title 23 requirements and will need a positive shut-off structure installed and automatic drainage gate on waterside of levee. Pumping up and over levee does not appear to be feasible. Should be part of 30 percent but not included.	SD(G)	8.4	86.70	91.70	100.10	91.31	92.33	97.02	94.54	pre-1955		part of orig O&M 1955	Butte Water District, Sutter Extension Water District	735 Virginia Street, Gridley, CA 95948	yes	yes
87	1.76	D	28	1767+57	2,248,167.22	6,665,252.49	39°20'05.478"N	121°38'01.556"W	Cox Spillway. South 60 Inch drain pipes through Levee. Slide Gates in 78 inch CM pipe wells on the waterside slope. Concrete bulkhead on both ends. Reinforced concrete spillway at the waterside end.	Address Sutter Butte Main Canal. Rehabilitation Work TBD	The pipeline does not meet title 23 requirements and will need a positive shut-off structure installed and automatic drainage gate on waterside of levee. Pumping up and over levee does not appear to be feasible. Should be part of 30 percent but not included.	SD(G)	8.4	86.70	91.70	100.10	91.31	92.33	97.02	94.53	pre-1955		part of orig O&M 1955	Butte Water District, Sutter Extension Water District	735 Virginia Street, Gridley, CA 95948	yes	yes
88	1.72-1.75	D	28	1767+30	2,248,140.77	6,665,254.84	39°20'05.217"N	121°38'01.527"W	To construct an 12kv aerial power line crossing of the right bank levee of the Feather River. The power line will extend from an existing pole located landward of the project levee to a new 50 foot pole located at least 20 feet water ward of the water ward toe of the levee/ The shall be 34 feet of clearance between the levee crown and the power line. The length of the span shall be 201 feet. The power line will extend from the 50 foot poles to a 30 foot pole to be located 135 downstream. This power line shall serve a pump covered by permit 11987 b Cox Brothers.	Address Sutter Butte Main Canal. Rehabilitation Work TBD		EL	OH			100.33					12020	yes, cond 13	1977	Pacific Gas and Electric Company	One Tower, Spear Tower, San Francisco, CA 94105	yes	yes
89	1.71	D	28	1766+00			Not Verified		To construct, operate, and maintain a 12kv aerial power line extension across the right bank levee, channel, and left bank overflow of the Feather River. A 55 foot pole will be installed 31 feet water ward of the water ward shoulder of levee. The overhead conductors will extend from an existing pole, located 138 feet landward of the landward toe of levee, the proposed 55 pole. The span between the two poles will be 212 feet. A minimum clearance of 35 feet will be provided between the overhead conductors and the top of the levee. The proposed extension will extend across the river and floodway for an additional 3,165.5 feet and will consist of	Address Sutter Butte Main Canal. Rehabilitation Work TBD		EL	OH			100.33					12241	yes, cond 13	1977	Pacific Gas and Electric Company	One Tower, Spear Tower, San Francisco, CA 94105	yes	yes
90	1.71	D	28	1765+33	2,247,975.94	6,665,181.76	39°20'03.574"N	121°38'02.510"W	12-inch CM pipe through the Levee. Slide Gate on the landside end and concrete distribution box on waterside.	Address Sutter Butte Main Canal. Rehabilitation Work TBD	The pipeline does not appear to meet the elevation requirement over 200 year WSEL. Type of pipe appears to meet Title 23. We will need a positive shut-off structure installed and automatic drainage gate on waterside of levee	IR(G)	4.5	94.50	95.50	100.00	91.03	92.09	96.90	94.55			1979	Cox Bros	Route 1, Box 926, Gridley, CA 95948	yes	yes
91	1.70	D	28	1765+15	2,247,960.44	6,665,189.22	39°20'03.424"N	121°38'02.404"W	To install an irrigation pump on the right bank of the Feather River with a 12 inch steel pipe across the berm, levee, and the Sutter Butte Canal to existing orchards on the right bank downstream from Evans-Reimer Road. Concrete headwall at the waterside toe	Address Sutter Butte Main Canal. Rehabilitation Work TBD	The pipeline is appears to meet the elevation requirement over 200 year WSEL. Type of pipe might not meet Title 23. We will need a positive shut-off structure installed and automatic drainage gate on waterside of levee	IR(P)	0.7	98.50	99.50	100.20	91.02	92.08	96.90	94.55	11987	yes, cond 13				yes	yes
92	1.55	D	28	1756+27	2,247,101.40	6,665,410.42	39°19'54.940"N	121°37'59.617"W	Abandoned 12-inch CM pipe through the Levee. Slide Gate on the landside end and concrete distribution box on waterside.	Address Sutter Butte Main Canal. Rehabilitation Work TBD	Not sure if the abandonment meets title 23 requirements. Pipe may need to be properly abandoned or completely removed.	SD(G)	7.1	90.67	91.67	98.80	90.74	91.82	96.71	94.29						yes	yes
93	1.5-1.60	D	28	1753+50			Not Verified		To plant approximately 1.13 hectares of kiwi plants and install an irrigation system supplied by an existing water well.	Address Sutter Butte Main Canal. Rehabilitation Work TBD		Trees									13410	yes, cond 13	1982	Edwin Roach	955 East Evans Reimer Road, Gridley, CA 95948	no	no
94	1.45-1.50	D	28	1753+50			Not Verified		To install a n electrical pole line service extension to a new agricultural pump on the right bank overflow area of the Feather River	Address Sutter Butte Main Canal. Rehabilitation Work TBD		EL	OH								13436	yes, cond 13	1982	Pacific Gas & Electric	5555 Florin-Perkins Road, Sacramento, CA 95826	no	no
95	1.30	D	28	1745+00			Not Verified		To retain a newly constructed barn on the right bank overflow area of the Feather River, approximately 150 feet water ward of the right bank levee of the Feather River	Address Sutter Butte Main Canal. Rehabilitation Work TBD		EL	OH								10823	no	1975	W.W. Alexander	Route 1, Box 718, Gridley, CA 95948	no	no
96	1.27	D	28	1741+32	2,245,620.98	6,665,550.58	39°19'40.299"N	121°37'57.893"W	Butte County Drainage District No. 1. A 16-Inch pipe through Levee. Emergency Repair Work on Pipe 3/5/02. Pipe not physically located	Address Sutter Butte Main Canal. Rehabilitation Work TBD	The pipeline does not meet title 23 requirements and will need a positive shut-off structure installed and automatic drainage gate on waterside of levee. Pumping up and over levee does not appear to be feasible	SD(G)	9.0	87.00	89.00	97.77	90.28	91.38	96.38	93.85				Butter County Drainage District No. 1	7 County Center Drive, Oroville, CA 95965	yes	yes
97	1.00	D	28	1728+33	2,244,365.98	6,665,826.21	39°19'27.883"N	121°37'54.450"W	To install a 12kv pole line westerly across the right bank levee of the Feather River and the Sutter Butte Canal, then northerly approximately 180 meters for service to well pump.	Address Sutter Butte Main Canal. Rehabilitation Work TBD		EL	OH								13359	yes, cond. 13	1982	Pacific Gas & Electric Company	5555 Florin-Perkins Road, Sacramento, CA 95826	yes	yes
98	0.94	D	28	1724+61	2,244,008.46	6,665,796.35	39°19'24.351"N	121°37'54.848"W	12 kv overhead electrical power line and telephone line crossing	Address Sutter Butte Main Canal. Rehabilitation Work TBD		EL	OH			97.77										yes	yes
99	0.62-1.00	D	28						1800 feet of 4.5 foot tall barbed wire fence located at waterside toe of levee.	Address Sutter Butte Main Canal. Rehabilitation Work TBD											17271			Peckema Bros			
	0.90	D	27/28	1721+60					Reach 27/28 Transition																		
100	0.90	D	27	1721+20	2,243,713.99	6,665,636.50	39°19'21.446"N	121°37'56.897"W	End 18" wide, 12-25 feet deep cutoff wall on crown with monitoring system 2000 lineal feet.	Address Sutter Butte Main Canal. Rehabilitation Work TBD						96.10								The Research Foundation of CSU Chico		yes	yes

LEVEE ENCROACHMENT LIST

APPENDIX A

					Location (NAD 83)		Location (WGS 84)						Elevations (NGVD 1988)			Water Surface Elevation (NGVD 1988)				CVFPB Permit Information			Owner Information				
	Levee Mile	SBFCA Phase	SBFCA Reach	SBFCA STA	Northing	Easting	Latitude	Longitude	Encroachment	Proposed Levee Improvement	Required Improvement Work	Type	cover	Invert of Pipe	Top of Pipe	Top of Levee	100 Yr	200 Yr	500 Yr	DWR 1957	Permit No.	Require Permittee to Relocate	Year	Name	Address	verified	Picture Taken
101	0.78	D	27	1707+34	2,242,329.23	6,665,666.71	39°19'07.758"N	121°37'56.584"W	Begin 18" wide, 12-25 feet deep cutoff wall on crown with monitoring system 2000 lineal feet.	Address Sutter Butte Main Canal. Rehabilitation Work TBD						96.80								The Research Foundation of CSU Chico		yes	yes
	0.77	D	26/27	1707+11					Reach 26/27 Transition																		
102	0.46	D	26	1699+62	2,241,637.34	6,665,378.46	39°19'00.931"N	121°38'00.288"W	Propane storage tanks at waterside toe of levee	Address Sutter Butte Main Canal. Rehabilitation Work TBD		G				97.13										yes	yes
103	0.44	D	26	1697+96	2,241,496.45	6,665,289.21	39°18'59.542"N	121°38'01.430"W	To retain a telephone line aerial crossing of the right bank levee of the Feather River. The aerial telephone line extends from a pole located landward of the Sutter Butte Main Canal to a pole located near water ward toe of the levee.	Address Sutter Butte Main Canal. Rehabilitation Work TBD		TL	OH			97.58					10422	no	1975	Pacific Telephone and Telegraph Co.	1426 Howe Avenue, Suite 50, Sacramento, CA 95825	yes	yes
104	0.40	D	26	1695+85			Not Verified		To construct a caretaker/ranch office and remove an existing structure on the right bank designated floodway of the Feather River.	Address Sutter Butte Main Canal. Rehabilitation Work TBD		Struc									15891	no	1992	J.F. Desmond	P.O. Box 211, Gridley, California 95948		
105	0.30	D	26	1691+00			Not Verified		To authorize farm buildings (a walnut processing plant and shop) on the water ward toe of the right bank levee on the Feather River, 200 feet north of Chandon Avenue. The buildings are a 30 x 80 foot walnut dehydrator and a 40 x 40 shed.	Address Sutter Butte Main Canal. Rehabilitation Work TBD		Struc									11963	yes, cond. 13	1977	J.F. Desmond	P.O. Box 211, Gridley, California 95948		
106	0.00-0.53	D	26	1690+00			Not Verified		To level and plant 160 acres of land between right bank levee and Feather River, off end of Chandon Avenue and opposite mouth of Honeycut Creek.	Address Sutter Butte Main Canal. Rehabilitation Work TBD		Trees									6566	yes, cond 5	1969	Butte Farms, Inc.	P.O. Box 338, Gridley, CA 95948		
107	0.01	D	26	1675+98	2,239,584.22	6,664,224.05	39°18'40.683"N	121°38'15.081"W	12 kv power line crossing of levee	Address Sutter Butte Main Canal. Rehabilitation Work TBD		EL	OH			96.20					3692	yes, cond 5	1961	Pacific Gas and Electric Company	530 E Street, Marysville, CA 95901	yes	yes
	0.00	D	26	1675+50					Maintenance Area 16/ Maintenance Area 7 Transition																		
1	4.09	D	26	1675+27	2,239,518.21	6,664,204.12	39°18'40.036"N	121°38'15.340"W	Butte County Drainage District No. 1. 60" x 72" RCP culvert through levee. Slide gate in concrete well on waterside slope.	Address Sutter Butte Main Canal. Rehabilitation Work TBD	The pipeline does not meet title 23 requirements and will need a positive shut-off structure installed and automatic drainage gate on waterside of levee. Pumping up and over levee does not appear to be feasible.	SD(G)	17.0	73.90	78.90	95.90	87.76	89.02	94.62	91.42	pre-1955		part of orig O&M 1955	Butter County Drainage District No. 1	7 County Center Drive, Oroville, CA 95965	yes	yes
		D	25/26	1674+37					Reach 25/26 Transition																		
2	3.9-3.94		25	1670+00			Not Verified		To plant kiwi plants in place of fruit and nut trees on the right bank overflow of the Feather River south of Chandon Avenue near Live Oak.	No Rehabilitation Required		Trees									12200	yes, cond 13	1981	Lois Scoonmaker	1424 Mirada, Yuba City, CA 95991	no	no
3	3.90		25	1667+00			Not Verified		To clear the overflow area of brush and construct a foot bridge over an old channel that meanders across the overflow area. To install a septic tank and leach lines, electric service, drill a well and park a mobile home in the overflow area.	No Rehabilitation Required		Struc									7438	yes, cond 13	1971	Grover James	925 N. Rancho Road, El Sobrante, CA 94803	no	no
4	3.85		25	1665+32	2,238,525.15	6,664,192.56	39°18'30.216"N	121°38'15.536"W	To construct a 12 kv aerial power line extension across the levee and into the floodway of the Feather River. An existing pole on the landside of the levee will be replaced with a new 55 foot pole to be located 13 feet from the landward toe of the levee. The overhead conductors will extend across the levee to a 55 foot pole located in the floodway 140 feet from the waterside toe of the levee. The span between the 2 poles will be 233 feet. A minimum clearance of 31 feet shall be maintained.	No Rehabilitation Required		EL	OH			95.67					7101	yes, cond 5	1970	Pacific Gas and Electric Company	530 E Street, Marysville, CA 95901	yes	yes
5	3.65		25	1653+15	2,237,309.20	6,664,181.79	39°18'18.198"N	121°38'15.734"W	12 Kv overhead power line crossing and along levee	No Rehabilitation Required		EL	OH			95.17								Pacific Gas & Electric	One Tower, Spear Tower, San Francisco, CA 94105	yes	yes
6	3.41-3.73		25	1650+00			Not Verified		To retain a walnut orchard on the right bank overflow area of the Feather River. The orchard is located a narrow strip of ground between the project levee and Drainage District No. 1's drain ditch.	No Rehabilitation Required		Trees									11855	yes, cond 13	1976	Madsen Ranch	P.O. Box 134, Live Oaks, CA 95953	no	no
7	3.39		25	1639+00	2,235,906.77	6,664,006.17	39°18'04.327"N	121°38'17.999"W	RD 777 Lateral 11. There are 2-24 inch steel pipes through levee. Automatic drainage gates on waterside end of pipe.	No Rehabilitation Required	The pipeline does not meet title 23 requirements and will need a positive shut-off structure installed and automatic drainage gate on waterside of levee. Pumping up and over levee does not appear to be feasible.	SD(G)	16.2	78.40	80.40	94.60	87.19	88.46	94.09	90.91	pre-1955		part of orig O&M 1955	Reclamation District No. 777	P.O. Box 876, Gridley, CA 95948	yes	no
8	3.38		25						Construction of Waterside Approach Ramp 500 feet north of Campbell Road and Meader Road	No Rehabilitation Required											3019	yes, cond 4	1959	Peder Pederson	Route 1, Box 33, Live Oak, CA	yes	no
9	3.38		25	1638+72	2,235,879.28	6,664,006.22	39°18'04.071"N	121°38'18.040"W	12 Kv overhead power line crossing and along levee	No Rehabilitation Required						94.50									yes	yes	
10	3.14-3.39		25	1635+00			Not Verified		To plant a prune orchard on the right bank overflow area of the Feather River at the end of Riviera Road	No Rehabilitation Required											8616	yes, cond 13	1973	James Eva	11751 Meter Road, Live Oak, CA 95953	no	no
		C	24/25	1623+86					Reach 24/25 Transition																		
11	2.87	C	24	1610+92	2,233,196.84	6,664,513.54	39°17'37.519"N	121°38'11.755"W	RD 777 Lateral 12. An 18 inch CM pipe through levee. Automatic drainage gate on waterside end of pipe.	Cutoff Wall and excavate and place 4.5 feet of compacted clay in bottom of Sutter Butte Main Canal	The pipeline does not meet title 23 requirements and will need a positive shut-off structure installed and automatic drainage gate on waterside of levee. Pumping up and over levee does not appear to be feasible.	SD(G)	17.3	76.50	78.00	93.80	87.00	88.28	93.90	90.69	pre-1955		part of orig O&M 1955	Reclamation District No. 777	P.O. Box 876, Gridley, CA 95948	yes	yes
	2.83	C	23/24	1609+37					Reach 23/24 Transition																		
12	2.38	C	23	1585+05	Not Verified		Not Verified		Abandoned 12 inch CM pipe through levee. Automatic drainage gate on waterside end of pipe	Cutoff Wall	Not sure if the abandonment meets title 23 requirements. Pipe may need to be properly abandoned or completely removed. Could not find pipe.	?		86.4 (USED)			86.21	87.54	93.24	89.74	pre-1955		part of orig O&M 1955			no	no
13	1.83	C	23	1557+00			Not Verified		To add approximately 575 feet of 12 kv line to an existing power line on Cooley Road and within the overflow area of the Feather River	Cutoff Wall		EL	OH			92.80					12792	yes, cond. 13	1971	Pacific Gas and Electric Company	5555 Florin-Perkins Road, Sacramento, CA 95826	no	no
14	1.83	C	23	1556+58	2,228,785.42	6,665,751.32	39°16'53.885"N	121°37'56.205"W	To extend a 12 kv pole line from the intersection of Cooley Road and the right bank levee of the Feather across the levee and continue for 1500 feet easterly along Cooley Road. The pole line will serve a 25 HP river pump.	Cutoff Wall		EL	OH			92.80					7336	yes, cond. 13	1971	Pacific Gas and Electric Company	5555 Florin-Perkins Road, Sacramento, CA 95826	yes	yes
15	1.83	C	23	1556+22	2,228,750.17	6,665,741.92			8 inch CM pipe through levee. Automatic drainage gate on waterside end of pipe.(No gate found, ARV on land side by structure. Line may be to the north pump plant from permit 7380)	Cutoff Wall	Not sure if the abandonment meets title 23 requirements. Pipe may need to be properly abandoned or completely removed. Could not find to verify.	IR(P)	8.0	81.0 (USED)		92.80	85.09	86.54	92.64	89.01	pre-1955		part of orig O&M 1955			no	no
16	1.80	C	23	1555+00			Not Verified		To install pumping plants at two locations on the right bank of the Feather River	Cutoff Wall		IR(P)									7380	yes, cond 13	1971	William Filter, Jr.	Route 2, Box 9, Chico, CA 95926	no	no
17	1.71	C	23	1549+63	2,228,117.97	6,665,558.67			12 inch CM pipe through levee. Automatic drainage gate on waterside end of pipe. Pipe partially plugged	Cutoff Wall	Not sure if the abandonment meets title 23 requirements. Pipe may need to be properly abandoned or completely removed. Could not find pipe.	SD(G)	12.5	79.05	80.05	92.50	85.05	86.51	92.61	88.91	pre-1955		part of orig O&M 1955			no	no
18	1.30-1.83	C	23	1548+00			Not Verified		To level and plant walnuts and either peaches or prunes on the right bank overflow area of the Feather River upstream from Live Oak Park.	Cutoff Wall		Trees									6997	yes, cond 5	1970	William Filter, Jr.	Route 2, Box 9, Chico, CA 95926	no	no
19	1.50	C	23	1539+00			Not Verified		To install 25 HP pumping plants at two locations on the right bank of the Feather River	Cutoff Wall		IR(P)									7380	yes, cond 13	1971	William Filter, Jr.	Route 2, Box 9, Chico, CA 95926	no	no
20	1.45	C	23	1536+12	2,226,796.70	6,665,666.06	39°16'34.268"N	121°37'57.407"W	RD 777 Lateral 7. There is a 36 inch CM pipe through levee. Automatic drainage gate on waterside end of pipe.	Cutoff Wall	The pipeline does not meet title 23 requirements and will need a positive shut-off structure installed and automatic drainage gate on waterside of levee. Pumping up and over levee does not appear to be feasible.	SD(G)	13.7	75.65	78.65	92.32	84.94	86.40	92.52	88.68	pre-1955		part of orig O&M 1955	Reclamation District No. 777	P.O. Box 876, Gridley, CA 95948	yes	yes
21	1.45	C	23	1535+95	2,226,780.47	6,665,668.20	39°16'34.070"N	121°37'57.365"W	To extend a 12 kv pole line 410 feet northerly to supply a 25 HP pump located in the river. The pump is pump referenced in permit 7380.	Cutoff Wall		EL	OH			92.39					7335	yes, cond 13	1971	Pacific Gas and Electric Company	5555 Florin-Perkins Road, Sacramento, CA 95826	yes	yes
22	1.44	C	23	1535+64	2,226,750.14	6,665,678.35	39°16'33.770"N	121°37'57.237"W	To widen access road to Live Oak Recreation Area at the east end of Pennington Road on the right bank levee and berm of the Feather River	Cutoff Wall		Struc									7294	yes, cond 5	1971	County of Sutter	1160 Civic Center Blvd, Yuba City, CA 95993	yes	yes
23	1.40	C	23	1535+00			Not Verified		To Install 2500 lf of 2 inch diameter Sch 40 PVC water pipe and 600 lf of 1 inch Sch 40 PVC pipe within the west bank overflow. (Permit number has been changed to 7440-D)	Cutoff Wall		W(P)									18256	yes, cond 24	2007	County of Sutter	1130 Civic Center Blvd, Yuba City, CA 95993		

LEVEE ENCROACHMENT LIST

APPENDIX A

	Levee Mile	SBFCA Phase	SBFCA Reach	SBFCA STA	Location (NAD 83)		Location (WGS 84)		Encroachment	Proposed Levee Improvement	Required Improvement Work	Type	cover	Elevations (NGVD 1988)			Water Surface Elevation (NGVD 1988)				CVFPB Permit Information			Owner Information				
					Northing	Easting	Latitude	Longitude						Invert of Pipe	Top of Pipe	Top of Levee	100 Yr	200 Yr	500 Yr	DWR 1957	Permit No.	Require Permittee to Relocate	Year	Name	Address	verified	Picture Taken	
24	1.36-1.39	C	23	1534+00			Not Verified		To construct a water supply system, a sanitary disposal system and restrooms for the Live Oak Recreational Area	Cutoff Wall		Struc								6855	yes, cond 5	1969	County of Sutter	1130 Civic Center Blvd, Yuba City, CA 95993				
25	1.36	C	23	1532+40	Not Verified		Not Verified		Potential Pipe Crossing. 6" Steel through levee	Cutoff Wall	Not sure about the elevation criteria being met. The pipeline does not meet title 23 requirements and will need a positive shut-off structure installed and automatic drainage gate on waterside of levee	?		82.2 (USED)		91.91	84.80	86.27	92.41	88.56	pre-1955		part of orig O&M 1955			yes	yes	
26	1.36	C	23	1532+45	2,225,437.02	6,665,722.95	39°16'20.789"N	121°37'56.738"W	Pump Station adjacent to Levee	Cutoff Wall		IR(P)									7380	yes, cond 13	1971	William Filter, Jr.	Route 2, Box 9, Chico, CA 95926	yes	yes	
27	1.33-1.43	C	23	1530+00			Not Verified		Live Oak Park to authorize trailer site, a porch, a metal storage building, fence across the waterside berm and waterside slope of the levee, on the right bank of the overflow area of the Feather River.	Cutoff Wall		Struc									7440	yes, cond 13	1973	County of Sutter	1160 Civic Center Blvd, Yuba City, CA 95993	no	no	
28	1.17	C	23	1524+35	Not Verified		Not Verified		Potential Pipe Crossing. 6" Steel through levee	Cutoff Wall	Not sure about the elevation criteria being met. The pipeline does not meet title 23 requirements and will need a positive shut-off structure installed and automatic drainage gate on waterside of levee	?		80.1 (USED)		91.67	84.27	85.80	92.05	87.89	pre-1955		part of orig O&M 1955			yes	yes	
	0.75	C	22/23	1503+83					Reach 22/23 Transition																			
29	0.50-1.10	C	22	1530+00			Not Verified		To authorize existing pear orchard and plant 10 additional acres on the right bank overflow of the Feather River downstream of Archer Road	Cutoff Wall		Trees									12672	yes, cond 13	1980	Elvyn Denny	2034 Fir Street, Live Oak, CA 95953	no	no	
30	0.70-1.14	C	22	1520+25			Not Verified		To extend approximately 1,950 feet of 12kv electric service line in the right bank overflow area of the Feather River downstream from Archer Avenue crossing	Cutoff Wall		EL	OH								12824	yes, cond 13	1979	Pacific Gas and Electric Company	P.O. Box 7444, Sacramento, CA 95826	no	no	
31	0.64	C	22	1493+88	2,222,717.57	6,664,731.41			Location of gate with no access	Cutoff Wall		Fence				91.44					17139	yes, cond 16				yes	yes	
32	0.47	C	22	1492+00			Not Verified		To construct an aerial telephone crossing of the right bank levee of the Feather River	Cutoff Wall		structure									6256	yes, cond 5	1969	Pacific Telephone and Telegraph Company	3675 "T" Street, Sacramento, CA	no	no	
33	0.42-.47	C	22	1482+00			Not Verified		To authorize a 4 x 17 foot wooden walkway on the landside shoulder; two tool sheds, four walnut trees, a barbed wire and wooden fence within 10 feet landward of the landside toe, and an electrical gate across the crown of the right bank levee of the Feather River	Cutoff Wall		structure									17139	yes, cond 15	1999	Wayne Sue	P.O. Box 213, Live Oak, California 95953	yes	yes	
34	0.38	C	22	1479+98	2,221,343.18	6,664,540.45	39°15'40.364"N	121°38'09.549"W	Location of electric gate with no access	Cutoff Wall		Fence				91.44					17139	yes, cond 16				yes	yes	
35	0.19	C	22	1470+15	2,220,360.26	6,664,561.50	39°15'30.656"N	121°38'11.766"W	To authorize a 4 x 17 foot wooden walkway on the landside shoulder and a 6 x 300 foot wooden lattice fence within 10 feet landward of the landside toe and parallel to the right bank of levee of Feather River	Cutoff Wall		structure									17168	yes, cond 15	1999	Mariko Gushi	1320 Bishop Road, Live Oak, CA 95953	yes	yes	
36	0.15	C	22	1468+70			Not Verified		To authorize four trees (oleander, pines, cherry, and birch) on the landside slope and a 5 foot high, 170 foot long wire fence within 7 feet of landward of the landside toe of the right bank levee of the Feather River	Cutoff Wall		structure									17129	yes, cond 14	1999	Kevin and Mary Ann McCool	1210 Bishop Road, Live Oak, CA 95953	no	no	
37	0.10	C	22	1466+02	2,219,947.02	6,664,564.97	39°15'26.570"N	121°38'11.743"W	Transformer located 40'± from land side toe	Cutoff Wall		EL				95.06										yes	yes	
38	0.10	C	22	1465+50			Not Verified		To construct access ramp across the right bank levee of the Feather River	Cutoff Wall		Struc										4741	yes, cond 5	1964	Edward J. Heinrich	2434 Archer Avenue, Live Oak, CA 95953	no	no
39	0.10	C	22	1465+50			Not Verified		The existing 36 inch CMP installed in 1913 failed on March 1964. The permit was for repair of levee and removal of the pipe prior to November 1964.	Cutoff Wall		IR(G)		52.7 (USED) Waterside) 70.0 (USED) Landside)								4556 and 4719	yes, cond 5	1964 and 1965	Butte Water District, Sutter Extension Water District	735 Virginia Street, Gridley, CA 95948	no	no
40	0.00-0.25	C	22	1461+00			Not Verified		To maintain existing your walnut orchards on the right bank of the Feather River, downstream from Bishop Avenue.	Cutoff Wall		Trees										11762	yes, cond 13	1976	Edward J. Heinrich	2434 Archer Avenue, Live Oak, CA 95953	no	no
		C	22	1460+00					Levee District No. 9 Levees /Maintenance Area 16 Transition																			
	5.73	C	21/22	1433+83					Reach 21/22 Transition																			
41	5.67	C	21	1430+55	2,216,425.27	6,664,383.06	39°14'51.685"N	121°38'14.253"W	Sunset Pump Station owned an operated by Sutter Extension Main Pump Station. This is the 60 Inch steel pipe a through the levee. Pump end has gate valves on structure. Automatic drainage gates on the landside end.	Cutoff Wall	The pipeline does not meet title 23 requirements and will need a positive shut-off structure installed and proper check valves at pump. Pumping up and over levee does not appear to be feasible.	IR(P)	15.6	80.61	85.61	91.16	81.70	83.63	90.27	85.74	pre-1955 and 3610	yes, cond 5 (for pumps)	part of orig O&M 1955 and 1961	Sutter Extension Water District	4525 Franklin Road, Yuba City, CA 95993-9316	yes	yes	
42	5.67	C	21	1430+47	2,216,417.64	6,664,382.64	39°14'51.614"N	121°38'14.261"W	Sunset Pump Station owned an operated by Sutter Extension Main Pump Station. This is the 60 Inch steel pipe a through the levee. Pump end has gate valves on structure. Automatic drainage gates on the landside end.	Cutoff Wall	The pipeline does not meet title 23 requirements and will need a positive shut-off structure installed and proper check valves at pump. Pumping up and over levee does not appear to be feasible.	IR(P)	15.6	80.42	85.42	91.13	81.70	83.63	90.27	85.74	pre-1955 and 3610	yes, cond 5 (for pumps)	part of orig O&M 1955 and 1961	Sutter Extension Water District	4525 Franklin Road, Yuba City, CA 95993-9316	yes	yes	
43	5.67	C	21	1430+40	2,216,410.86	6,664,382.27	39°14'51.758"N	121°38'14.247"W	Sunset Pump Station owned an operated by Sutter Extension Main Pump Station. This is the 36 inch steel pipe through the levee. Pump end has gate valves on structure. Automatic drainage gates on the landside end.	Cutoff Wall	The pipeline does not meet title 23 requirements and will need a positive shut-off structure installed and proper check valves at pump. Pumping up and over levee does not appear to be feasible.	IR(P)	15.6	82.92	85.92	91.18	81.70	83.63	90.27	85.74	pre-1955 and 3611	yes, cond 5 (for pumps)	part of orig O&M 1955 and 1961	Sutter Extension Water District	4525 Franklin Road, Yuba City, CA 95993-9316	yes	yes	
44	5.67	C	21	1430+40			Not Verified		To construct and operate a vertical-perforated plate fish screen with a power operated brush on the right bank of Feather River. Located at Sunset Pump Plant.	Cutoff Wall		IR										13381	yes, cond 13	1982	Department of Fish and Game	1701 Nimbus Road, Ranch Cordova, CA 95670	no	no
45	5.67	C	21		Not Verified		Not Verified		36" CM pipe crossing through levee	Cutoff Wall	Not sure if the abandonment meets title 23 requirements. Pipe may need to be properly abandoned or completely removed. Could not find pipe. Should be part of 30 percent but not included	IR									pre-1955		part of orig O&M 1955			no	no	
46	5.67	C	21	1429+98	2,216,368.25	6,664,376.98	39°14'51.204"N	121°38'14.314"W	12 KV OH Power	Cutoff Wall		EL	OH			91.19									Pacific Gas & Electric	One Tower, Spear Tower, San Francisco, CA 94105	yes	yes
47	5.67	C	21	1429+68	2,216,338.71	6,664,376.58	39°14'50.912"N	121°38'14.321"W	12 KV OH Power	Cutoff Wall		EL	OH			91.18									Pacific Gas & Electric	One Tower, Spear Tower, San Francisco, CA 94105	yes	yes
48	5.65	C	21	1429+50			Not Verified		Existing rubble coffer dam constructed with Rec Board Permit 3610. Repair coffer dam.	Cutoff Wall		IR										3610 and 7762	no	1961 and 1971	Sutter Extension Water District	4525 Franklin Road, Yuba City, CA 95993-9316	yes	no
49		C	21	1428+50					Sutter Butte Main Canal Begin (Station 1428+50 to 1433+83) - Main Irrigation Canal approx 420 cfs	Cutoff Wall		IR																
49	5.20	C	21				Not Verified		12 kv pole line crossing of levee 30 feet from waterside toe for 792 feet	Cutoff Wall		EL	OH									8533		1973	Pacific Gas and Electric Company	5555 Florin-Perkins Road, Sacramento, CA 95826	no	no
50	5.08	C	21	1399+27	2,213,450.77	6,664,966.80	39°14'22.343"N	121°38'06.965"W	To install a 12 kv pole line across and along the right bank levee of the Feather River.	Cutoff Wall		EL	OH			90.49						7439	yes, cond 13	1971	Pacific Gas and Electric Company	5555 Florin-Perkins Road, Sacramento, CA 95826	yes	yes
51	4.91	C	21				Not Verified		End Seepage Interceptor Trench located on landside toe of levee	Cutoff Wall		SEEP										15201	no	1991	Levee District No. 9	1190 Civic Center Blvd., Yuba City, CA 95991	no	no
52	4.91-5.08	C	21				Not Verified		Plant 9 acres of Kiwi plants on waterside of levee between Bridgeford and Hermanson Avenues	Cutoff Wall		Trees										12589	yes, cond 13	1978	Tom-A-Hay Farms, Inc.	P.O. Box 461, Live Oak, CA 95953		
53	4.83-4.91	C	21				Not Verified		Plant 14 acres of Kiwi plants on waterside of levee upstream of Hermanson Avenue	Cutoff Wall		Trees										12623	yes, cond 13	1979	John Tomlinson and Anthony Hess	P.O. Box 461, Live Oak, CA 95953		
54	4.73-4.81	C	21				Not Verified		To construct a well and septic tanks for 2 mobile homes and to extend electrical service to well on right bank overflow area of Feather River	Cutoff Wall		Struc										7994	yes, cond 13	1972	Johnny McReynolds	2650 The Alameda, Santa Clara, CA 95050	no	no
55	4.76-4.83	C	21				Not Verified		To plant 8 acres of kiwi plants, a submersible pump, and underground sprinkler system on the right bank overflow area of the Feather River	Cutoff Wall		Trees										12816	yes, cond 13	1979	Tom-A-Hay Farms, Inc.	8935 Sinnard Avenue, Live Oak, CA 95953	no	no



LEVEE ENCROACHMENT LIST

APPENDIX A

	Levee Mile	SBFCA Phase	SBFCA Reach	SBFCA STA	Location (NAD 83)		Location (WGS 84)		Encroachment	Proposed Levee Improvement	Required Improvement Work	Type	cover	Elevations (NGVD 1988)			Water Surface Elevation (NGVD 1988)				CVFPB Permit Information			Owner Information			
					Northing	Easting	Latitude	Longitude						Invert of Pipe	Top of Pipe	Top of Levee	100 Yr	200 Yr	500 Yr	DWR 1957	Permit No.	Require Permittee to Relocate	Year	Name	Address	verified	Picture Taken
56	4.81	C	21				Not Verified		To pump storm water from landward drainage ditch over the right bank levee of the Feather River from one separate location for approximately size at the end of Hermansen Road. <del>Pipe has been removed.</del>	Cutoff Wall		SD(P)								13611	yes, cond 13	1983	Sundown Farms, Inc.	1350 Hermansen Avenue, Live Oak, CA 95953	n/a	n/a	
57	4.80	C	21	1391+96	2,212,767.43	6,665,226.86	39°14'15.579"N	121°38'03.695"W	To extend a 12 kv pole line out into the right bank levee and overflow area of the Feather River	Cutoff Wall		EL	OH			89.77				8533	yes, cond 13		Pacific Gas & Electric	One Tower, Spear Tower, San Francisco, CA 94105	yes	yes	
58	4.50	C	21	1375+35	2,211,296.56	6,665,998.34	39°14'01.009"N	121°37'53.965"W	Sutter Extension Sunset Lateral Begin (Station 1375+35 to 1428+50) Open irrigation ditch 15 feet from landside toe	Cutoff Wall		IR				89.42							Sutter Extension Water District	4525 Franklin Road, Yuba City, CA 95993-9316	yes	yes	
59	4.48	C	21	1374+94	2,211,260.36	6,666,016.66	39°14'00.651"N	121°37'53.734"W	Begin Seepage Interceptor Trench located on landside toe of levee	Cutoff Wall		SEEP								15201	no	1991	Levee District No. 9	1190 Civic Center Blvd., Yuba City, CA 95991	no	no	
60	4.10-4.38	C	21	1375+00			Not Verified		To level and plant 13 acres Peach Orchard on the right bank overflow area of the Feather River	Cutoff Wall		Trees								9846	yes, cond 13	1975	Bruce Jenlins	7035 Kent Avenue, Live Oaks, CA 95953	no	no	
	4.47	C	20/21	1374+33					Reach 20/21 Transition																		
61	4.10-4.38	C	20	1350+00			Not Verified		To plant peach trees and to establish two wells and install pumping plants in right bank overflow of the Feather River	Cutoff Wall		EL	OH							6380	yes, cond 5	1969	James Eager	7245 Larkin Road, Yuba City, CA 95953	no	no	
62	4.10-4.38	C	20	1350+00			Not Verified		To extend 12 kv pole line parallel to the water ward toe of levee for a distance of approximately 1,500 feet north from Koch Lane, on the right bank overflow area of the Feather River.	Cutoff Wall		EL	OH							10749	yes, cond 13	1975	Pacific Gas and Electric Company	5555 Florin-Perkins Road, Sacramento, CA 95826	no	no	
63	4.10	C	20	1347+37	2,208,612.74	6,666,676.45	39°13'34.454"N	121°37'45.485"W	To install a 60 foot pole 86 feet from the landward toe of the levee, a 60 foot pole 10 feet from the water ward toe of the levee and 6 additional poles on the right bank overflow of the Feather River. The 12kv electrical service will be extend across the levee to serve a pump installed under Permit 6380. The span across the levee will be 234 feet. The clearance between the overhead wires and the top of the levee will be 21 feet.	Cutoff Wall		EL	OH			89.77				6515	yes, cond 13	1969	Pacific Gas and Electric Company	5555 Florin-Perkins Road, Sacramento, CA 95826	yes	yes	
64	4.10	C	20	1347+00	2,208,582.82	6,666,680.19	39°13'34.158"N	121°37'45.487"W	Underground communication cable through levee	Cutoff Wall		TL	4.0			89.58	79.98	82.33	88.93	84.39						yes	yes
65	4.00	C	20	1345+00			Not Verified		To plant prune orchard on the right bank overflow area of the Feather River, downstream from Koch Road	Cutoff Wall		Trees								9278	yes, cond 13	1974	Justin Micheli	6005 Highway 99, Live Oak, CA 95993	yes	yes	
66	4.00	C	20	1345+00			Not Verified		To retain walnut orchard on the right bank overflow area of the Feather River, downstream from Koch Road	Cutoff Wall		Trees								9277	no	1974	Justin Micheli	6005 Highway 99, Live Oak, CA 95993	yes	yes	
67	3.72	C	20	1328+00			Not Verified		To pump storm water from landward drainage ditch over the right bank levee of the Feather River from three separate location for approximately size at the end of Hermansen Road. <del>Pipe has been removed.</del>	Cutoff Wall		SD(P)								13603	yes, cond 13	1983	Justin Micheli	6005 Highway 99, Live Oak, CA 95993	no	no	
68	3.71	C	20	1328+00			Not Verified		To construct a 12 kv aerial power line on the right bank overflow area of the Feather River	Cutoff Wall		EL	OH							11593, 11593A	yes, cond 13	1976	Pacific Gas and Electric Company	One Tower, Spear Tower, San Francisco, CA 94105	yes	no	
69	3.71	C	20	1327+00	2,206,597.56	6,666,928.33	39°13'14.525"N	121°37'42.389"W	12KV overhead power line crossing	Cutoff Wall		EL	OH			89.71							Pacific Gas and Electric Company	One Tower, Spear Tower, San Francisco, CA 94105	yes	no	
70	3.53	C	20	1317+15			Not Verified		Temporary storm discharge pipe through levee	Cutoff Wall	Not sure if the abandonment meets title 23 requirements. Pipe may need to be properly abandoned or completely removed. Could not find pipe	SD(P)								13603		1983	Justin Micheli	6005 Highway 99, Live Oak, CA 95993	no	no	
71	3.49	C	20	1315+03	2,205,398.45	6,666,943.63	39°13'02.672"N	121°37'42.272"W	End Seepage Interceptor Trench located on landside toe of levee	Cutoff Wall		SEEP								15201		1991	Levee District No. 9	1471 Coats Drive, Yuba City, CA 95991	yes	no	
72	3.48	C	20	1314+80	2,205,375.80	6,666,944.25	39°13'2.438"N	121°37'42.272"W	Micheli Storm Drainage Pump Station. To install a pump with 20 Inch steel discharge pipe through the right bank of the Feather River for the removal of stormwater.	Cutoff Wall	Not sure whether pipeline meets the elevation criteria. The pipeline appears to meet title 23 requirements . Pumping could be option but not enough information available of the pump system. Should be part of 30 percent but not included	SD(P)	2.0	84.73	86.40	88.20	79.00	81.65	88.28	83.94	13657	yes, cond 13	1983	Micheli	6005 Highway 99, Live Oak, CA 95993	yes	yes
73	3.45-3.75	C	19	1312+08			Not Verified		To plant an orchard and grade the land on the right bank overflow area of the Feather River. The project is located north of Yuba City approximately 5.5 miles.	Cutoff Wall		Trees								3688	no	1961	Micheli	6005 Highway 99, Live Oak, CA 95993			
73	3.30	C	20	1305+30			Not Verified		To pump storm water from landward drainage ditch over the right bank levee of the Feather River from one separate location for approximately size at the end of Hermansen Road. <del>Pipe has been removed.</del>	Cutoff Wall		SD(P)								13610	yes, cond 13	1983	Wilmax Farms, Inc	1857 Encinal Road, Live Oak, CA 95953	n/a	n/a	
	3.18	C	19/20	1297+83					Reach 19/20 Transition																		
74	3.0-3.3	C	19	1295+00			Not Verified		To plant an orchard and grade the land on the right bank overflow area of the Feather River. The project is located north of Yuba City approximately 1.3 miles upstream (north) of the intersection of Eager Road and Live Oak Boulevard	Cutoff Wall		Trees								16298	no	1995	Timothy and Lori Filter	1010 Morse Road, Live Oak, CA 95953			
75	3.10	C	19	1293+66	2,203,266.22	6,666,867.99	39°12'41.599"N	121°37'43.329"W	End Concrete Lined Ditch on landside toe of levee	Cutoff Wall		SEEP				89.14							USACE?	1325 J Street, Sacramento, CA	yes	yes	
76	3.08	C	19	1293+66	2,203,266.22	6,666,867.99	39°12'41.599"N	121°37'43.329"W	12 KV Overhead Power line crossing of levee. One pole 6 foot from levee toe.	Cutoff Wall		EL	OH			89.14				4584	yes, cond 5	1964	Pacific Gas & Electric	One Tower, Spear Tower, San Francisco, CA 94105	yes	yes	
77	3.00	C	19						Begin Seepage Interceptor Trench located on landside toe of levee	Cutoff Wall		SEEP								15201	no	1991	Levee District No. 9	1471 Coats Drive, Yuba City, CA 95991	no	no	
78	2.90	C	19	1284+91	2,202,406.27	6,666,705.08	39°12'33.105"N	121°37'45.443"W	Begin Concrete Lined Ditch on landside toe of levee	Cutoff Wall		SEEP				88.65							USACE?	1325 J Street, Sacramento, CA	yes	yes	
79	2.56	C	19	1266+71	2,200,600.09	6,666,626.50	39°11'40.511"N	121°37'23.859"W	12KV overhead power line crossing	Cutoff Wall		EL	OH			88.28							Pacific Gas & Electric	One Tower, Spear Tower, San Francisco, CA 94105	yes	yes	
80	2.54	C	19	1265+59	2,200,487.69	6,666,648.86	39°12'14.101"N	121°37'46.217"W	Sullivan Pump Station. 18 inch steel pipe through the levee. Pump and Gate valve in pump house on the channel bank. Concrete well on the bank. Siphon breaker in CMP riser on landside slope. (Sullivan Pump Station)	Cutoff Wall	The pipeline does not meet title 23 requirements and will need a positive shut-off structure installed and automatic drainage gate on waterside of levee. Pumping up and over levee does not appear to be feasible. Pump does not appear to be used any longer and could remove as part of project. Should be part of 30 percent but not included	IR(P)	18.3	70.05	71.55	88.30	78.41	81.22	87.80	82.99	pre-1955		0			yes	yes
81	1.86	C	19	1229+41	2,197,325.05	6,668,184.53	39°11'42.843"N	121°37'26.919"W	Kewall Singh IR PS. A 16 inch steel pipe through levee. Pump in pump house on channel bank. Gate valve on the waterside end. Concrete standpipe.	Cutoff Wall	The pipeline is appears to meet the elevation requirement over 200 year WSEL based on the record information. Type of pipe might not meet Title 23. We will need a positive shut-off structure installed and automatic drainage gate on waterside of levee.	IR(P)	3.0 or deeper through levee?			87.52	77.96	80.90	87.42	82.61	pre-1955		part of orig O&M 1955			yes	yes
82	1.80	C	19	1226+06	2,197,092.42	6,668,425.95	39°11'40.511"N	121°37'23.859"W	12 KV power pole located in landside slope	Cutoff Wall		EL	OH			87.29										yes	yes
		C	18/19	1213+85					Reach 18/19 Transition																		
83	1.32	C	18	1200+69	2,194,694.58	6,669,169.33	39°11'46.779"N	121°37'14.543"W	Abandoned 10 inch steel pipe through levee. Waterside end open. Steel Plate welded on landward end. Pump and Standpipe at the landside end.	Cutoff Wall	Not sure if the abandonment meets title 23 requirements. Pipe may need to be properly abandoned or completely removed.	IR(P)	2.8	84.55	87.80						removed	2011	Wilbur Rev & 1994 Trust Etal	P.O. Box 3730, Yuba City, CA 95992	yes	yes	
84	1.20	C	18						12 KV power line in overflow and levee crossing north of Rednall Road	Cutoff Wall		EL	OH							11960, 11960A	yes, cond 13	1979	Pacific Gas & Electric	One Tower, Spear Tower, San Francisco, CA 94105			

LEVEE ENCROACHMENT LIST

APPENDIX A

	Levee Mile	SBFCA Phase	SBFCA Reach	SBFCA STA	Location (NAD 83)		Location (WGS 84)		Encroachment	Proposed Levee Improvement	Required Improvement Work	Type	cover	Elevations (NGVD 1988)			Water Surface Elevation (NGVD 1988)				CVF/PB Permit Information			Owner Information				
					Northing	Easting	Latitude	Longitude						Invert of Pipe	Top of Pipe	Top of Levee	100 Yr	200 Yr	500 Yr	DWR 1957	Permit No.	Require Permittee to Relocate	Year	Name	Address	verified	Picture Taken	
85	0.98	C	18	1182+75	Not Verified		Not Verified		20 Inch steel pipeline through levee ( <b>not installed</b> ) - Plans prepared by MHM Job No. 78-158	Cutoff Wall	The pipeline is appears to meet the elevation requirement over 200 year WSEL based on the record information. Type of pipe might not meet Title 23. Could not find pipeline in the field. Should be part of 30 percent but not included	IR(A)	3.0								12634	yes, cond 13	1979	Favero Farms	600 Rednall Road, Yuba City, CA 95991	no	no	
86	0.97	C	18	1181+50	Not Verified		Not Verified		Abandoned 8 inch steel pipe through levee. Pipe plugged on the waterside toe.	Cutoff Wall	Not sure if the abandonment meets title 23 requirements. Pipe may need to be properly abandoned or completely removed. Could not find in field	IR(A)	4.0	76.6 (USED)			77.08	80.24	86.59	81.90	pre-1955		part of orig O&M 1955			no	no	
87	0.96	C	18	1180+98	2,192,727.96	6,669,163.92	39°10'57.338"N	121°37'14.737"W	3 inch steel pipe through levee crown	Cutoff Wall	The pipeline is appears to meet the elevation requirement over 200 year WSEL based on the record information. Type of pipe might not meet Title 23. Could not find pipeline in the field	IR(?)	1.0	86.05	86.30	87.30	77.07	80.24	86.58	81.89						yes	yes	
88	0.95	C	18	1180+50	Not Verified		Not Verified		One 12 inch steel pipe through levee. Pipe exposed on landside slope	Cutoff Wall	The pipeline is appears to meet the elevation requirement over 200 year WSEL based on the record information. Type of pipe might not meet Title 23. Could not find pipeline in the field	IR(A)	1.0				77.06	80.23	86.57	81.89						no	no	
89	0.98	C	18	1182+75	Not Verified		Not Verified		To install an irrigation pump and a buried pipeline landward over the right bank levee of the Feather River, upstream Rednall Road. <del>Not install per Reclamation Board</del>	Cutoff Wall		IR(P)									12634	yes, cond 13	1981	Favero Farms	600 Rednall Road, Yuba City, CA 95991	n/a	n/a	
90	0.80	C	18	1174+05	2,192,034.01	6,669,096.85	39°10'50.484"N	121°37'15.605"W	Water Well and Pump 20 feet from Landside toe	Cutoff Wall						87.29										yes	yes	
91	0.75	C	18	1170+04	2,191,638.99	6,669,057.61	39°10'46.581"N	121°37'16.124"W	12KV overhead power line crossing	Cutoff Wall		EL	OH			87.18									Pacific Gas and Electric Company	5555 Florin-Perkins Road, Sacramento, CA 95826	yes	yes
92	0.40	C	18	1152+55	2,189,899.09	6,668,879.71	39°10'29.390"N	121°37'18.475"W	Twin 110 KV Tower line across Feather River	Cutoff Wall		EL	OH			86.95					3365	yes, cond 4	1960	Pacific Gas and Electric Company	5555 Florin-Perkins Road, Sacramento, CA 95826	yes	yes	
93	0.18	C	18	1138+22	2,188,574.27	6,668,732.99	39°10'16.301"N	121°37'20.408"W	12 KV and 40/60 KV power pole located in landside slope	Cutoff Wall		EL	OH			86.71									Pacific Gas and Electric Company	5555 Florin-Perkins Road, Sacramento, CA 95826	yes	yes
94	0.08	C	18	1135+31	2,188,188.41	6,668,676.43	39°10'12.536"N	121°37'21.138"W	16 inch gas line through the levee. Marker post on the waterside shoulder	Cutoff Wall	The pipeline is appears to meet the elevation requirement over 200 year WSEL based on the record information. Type of pipe might not meet Title 23. We will need a positive shut-off structure installed and automatic drainage gate on waterside of levee.	GL	3.5			86.50	76.15	79.58	85.73	81.27				Pacific Gas and Electric Company	5555 Florin-Perkins Road, Sacramento, CA 95826	yes	yes	
95	16.52-16.65 and 0.00-0.10	C	17	1133+00			Not Verified		To construct 1,180 feet of 12 kv line in the right bank overflow area of the Feather River	Cutoff Wall		EL	OH								12750	yes, cond. 13	1979	Pacific Gas and Electric Company	5555 Florin-Perkins Road, Sacramento, CA 95826	no	no	
		C	18	1132+61					Levee District No. 1 Levees /Levee District No. 9 Transition																			
1	16.65	C	18	1132+09	2,187,967.19	6,668,647.98	39°10'09.827"N	121°37'21.468"W	8-5/8" steel pipeline within railroad right-of-way parallel to tracks	Cutoff Wall	The pipeline is appears to meet the elevation requirement over 200 year WSEL based on the record information. Type of pipe might not meet Title 23. We will need a positive shut-off structure installed and automatic drainage gate on waterside of levee.	GL				84.80	76.09	79.54	85.67	81.07	3823	yes, cond 5	1961	Southern Pacific Pipe Line Co.	610 South Main Street, Los Angeles, CA	yes	yes	
2	16.65	C	18	1131+82	2,187,840.25	6,668,647.20	39°10'09.827"N	121°37'21.468"W	Fiber optic warning sign	Cutoff Wall	The fiber optic most likely does not meet the elevation requirement over 200 year WSEL because the cable appears to run adjacent to rail which is barely above the 200 year. Type of wire might not meet Title 23.	TL				84.80	76.09	79.54	85.67	81.07						yes	yes	
		C	17/18	1130+86					Reach 17/18 Transition																			
3	16.65	C	17	1130+47	2,187,705.38	6,668,643.93	39°10'07.716"N	121°37'21.585"W	Union Pacific Railroad Crossing. There is no stop log structure.	Cutoff Wall	The railroad crossing does not include any structure. There is not a stop log structure and is simply a low area within the levee.	RR	6.0			81.32									Union Pacific RR	1400 Douglas Stop #1640, Omaha, NE 68179	yes	yes
4	16.60	C	17	1128+00			Not Verified		To construct a ramp on the waterside slope of the right bank levee on the Feather River adjacent to the SPRR.	Cutoff Wall		Struc									10525	yes, cond. 13	1975	Keith Boone	P.O. Box 95, Live Oak, CA 95953	no	no	
5	16.60	C	17	1127+48	2,187,405.84	6,668,629.29	39°10'04.756"N	121°37'21.787"W	Village Green Trailer Park - To install a 10 inch outfall pipe through the right bank levee of the Feather River to provide storm drainage for a mobile home park.	Cutoff Wall	Not sure whether pipeline meets the elevation criteria or title 23 requirements but newer permit . Pumping could be option but not enough information available of the pump system	SD(P)			87.90	76.02	79.48	85.59	81.01	13754	yes, cond 13	1984	Village Green Mobile Homes Park c/o Sargent and Morton	1155 Pease Road, Yuba City, CA 95991-8814	yes	yes		
6	16.56	C	17	1125+00			Not Verified		To retain an existing irrigation well in the right bank overflow area of the Feather River.	Cutoff Wall		Well									12759	yes, cond. 13	1979	DiFiore Ranches	5028 Carlson Road, Yuba City, CA 95991	no	no	
7	16.29	C	17	1111+46	2,185,808.02	6,668,723.59	39°09'48.957"N	121°37'20.672"W	North Yuba City Drainage Area. 16 Inch welded steel 7 GA asphalt coated storm drain discharge pipe over levee connected to 24 inch pipe in overflow area, outfall ditch, and pipes in floodway	Cutoff Wall	The pipeline is appears to meet the elevation requirement over 200 year WSEL based on the record information and type of pipe might appears to meet Title 23. Appears no work required. We have as-built drawings	SD(P)	1.1	83.17	84.50	85.60	75.75	79.21	85.29	80.77	14420	no	1986	City of Yuba City	1201 Civic Center Blvd., Yuba City, CA 95991	yes	yes	
8	16.20	C	17	1107+82	2,185,444.63	6,668,754.75	39°09'45.365"N	121°37'20.297"W	12 KV crossing & power pole located in landside slope	Cutoff Wall		EL	OH			86.09									Pacific Gas & Electric	One Tower, Spear Tower, San Francisco, CA 94105	yes	yes
9	16.01	C	17				39°09'35.29"N	121°37'15.71"W	To install an intertie to an existing waste water line and abandon approximately 40 feet of 24 inch diameter pipe on the right bank of the Feather River.	Cutoff Wall		RW(P)	4.0								15331	no	1989	City of Yuba City	1201 Civic Center Blvd., Yuba City, CA 95991	yes	yes	
10	16.01	C	17	1096+81	2,184,404.96	6,669,131.69	39°09'35.073"N	121°37'15.566"W	Yuba City Water Treatment Plant 28" (29 25/32" OD) 7 GA welded steel waterline pipe crossing of levee. New permit included installation of automatic drainage gates on pipelines. (copy of record drawings)	Cutoff Wall	The pipeline is appears to meet the elevation requirement over 200 year WSEL based on the record information and type of pipe might appears to meet Title 23. Appears no work required. We have as-built drawings	RW(P)	5.0	81.05 rd	83.6 est	87.70	75.61	79.08	85.16	80.62	5758 & 6016 & 13957 & 13593 & 15330	yes, cond 13	1967 & 1968 & 1984 & 1983 & 1989	City of Yuba City	1201 Civic Center Blvd., Yuba City, CA 95991	yes	yes	
11	16.01	C	17	1096+71	2,184,406.70	6,669,130.73	39°09'35.090"N	121°37'15.578"W	Yuba City Water Treatment Plant 24" 7 GA welded steel waterline pipe crossing of levee. New permit included installation of automatic drainage gates on pipelines. (copy of record drawings)	Cutoff Wall	The pipeline is appears to meet the elevation requirement over 200 year WSEL based on the record information and type of pipe might appears to meet Title 23. Appears no work required. We have as-built drawings	RW(P)	4.7	81.80 rd	83.8 est	87.80	75.61	79.08	85.16	80.62	5758 & 6016 & 13957 & 13593 & 15330	yes, cond 13	1967 & 1968 & 1984 & 1983 & 1989	City of Yuba City	1201 Civic Center Blvd., Yuba City, CA 95991	yes	yes	
12	16.01	C	17	1096+62	2,184,416.62	6,669,124.90	39°09'35.189"N	121°37'15.652"W	Yuba City Water Treatment Plant 42" cement mortar lined and coated welded steel pipe waterline crossing of levee (copy of record drawings)	Cutoff Wall	The pipeline is appears to meet the elevation requirement over 200 year WSEL based on the record information and type of pipe might appears to meet Title 23. Appears no work required. We have as-built drawings	RW(P)	2.5	82.50 rd	86.1 est	88.40	75.61	79.08	85.16	80.61	17977	yes, cond 28	2005	City of Yuba City	1201 Civic Center Blvd., Yuba City, CA 95991	yes	yes	
13	16.00	C	17	1096+74	2,184,416.62	6,669,124.90	39°09'35.189"N	121°37'15.652"W	To install a 12 kv aerial pole line extension across the right bank levee of the Feather River. The pole line shall serve the Yuba City Water treatment Plant intake pump station	Cutoff Wall		EL	OH			88.30					6067	yes, cond 5	1968	Pacific Gas & Electric	One Tower, Spear Tower, San Francisco, CA 94105	yes	yes	
		C	16/17	1080+00					Reach 16/17 Transition																			
14	15.68	C	16	1079+91	2,183,133.99	6,670,212.82			8 inch Gas Line	Flatten Waterside Slope	The pipeline is appears to meet the elevation requirement over 200 year WSEL based on the record information and type of pipe may or may not meet Title 23. Appears no work required but need to subside to verify	GL	3.5				75.51	78.99	85.03	80.36				Pacific Gas & Electric	One Tower, Spear Tower, San Francisco, CA 94105	yes	yes	
15	15.56	C	16	1073+41	2,182,671.85	6,670,670.15	39°09'17.878"N	121°36'56.126"W	16 inch Gas Line (PG&E Map shows the gas main as 12 inch)	Flatten Waterside Slope	The pipeline is appears to meet the elevation requirement over 200 year WSEL based on the record information and type of pipe may or may not meet Title 23. Appears no work required but need to subside to verify	GL	3.5			85.65	75.51	78.99	85.03	80.21				Pacific Gas & Electric	One Tower, Spear Tower, San Francisco, CA 94105	yes	yes	
16	15.15	C	16	1054+75	2,181,074.23	6,671,588.96	39°09'02.048"N	121°36'44.548"W	Telephone Call box on landside hinge point	Flatten Waterside Slope		TL				86.66										yes	yes	
17	14.98	C	16	1043+52	not verified		not verified		Abandon 36 inch pipe	Flatten Waterside Slope	Not sure if the abandonment meets title 23 requirements. Pipe may need to be properly abandoned or completely removed.	SS(A)									pre-1955		part of orig O&M 1955			no	no	

LEVEE ENCROACHMENT LIST

APPENDIX A

	Levee Mile	SBFCA Phase	SBFCA Reach	SBFCA STA	Location (NAD 83)		Location (WGS 84)		Encroachment	Proposed Levee Improvement	Required Improvement Work	Type	cover	Elevations (NGVD 1988)			Water Surface Elevation (NGVD 1988)				CVFPB Permit Information			Owner Information		verified	Picture Taken	
					Northing	Easting	Latitude	Longitude						Invert of Pipe	Top of Pipe	Top of Levee	100 Yr	200 Yr	500 Yr	DWR 1957	Permit No.	Require Permittee to Relocate	Year	Name	Address			
18	14.98	C	16	1043+52	2,180,149.57	6,672,223.24			Abandoned 27 inch Centrifugal Spun Concrete Pipe. City of Yuba City Drawing 214-D per 1949 plans	Flatten Waterside Slope	Not sure if the abandonment meets title 23 requirements. Pipe may need to be properly abandoned or completely removed.	SS(A)	38.6	45.45	47.70	86.30	75.17	78.56	84.45	79.61	pre-1955	no	1949	City of Yuba City	1120 Civic Center Blvd., Yuba City, CA 95991	no	no	
19	14.98	C	16	1043+45	2,180,137.11	6,672,230.51	39°08'52.758"N	121°36'36.455"W	To install a 36 Inch discharge pipe through right bank of Feather River.	Flatten Waterside Slope	Not sure if the pipeline meets the elevation requirement over 200 year WSEL. The type of pipe may or may not meet Title 23. Need to pothole to verify. Working on obtaining as-built drawings	SD(P)	5.0	80.0 rd	83.0 rd	86.40	75.17	78.56	84.45	79.61	13930	yes, cond 13	1984	Gilsizer Drainage County Drainage District	701 Bogue Road, Yuba City, CA 95991	yes	yes	
20	14.98	C	16	1043+27	2,180,126.23	6,672,235.13			To install a 24 inch wrapped steel pipe through the right bank levee of the Feather River	Flatten Waterside Slope	Not sure if the pipeline meets the elevation requirement over 200 year WSEL. The type of pipe may or may not meet Title 23. Need to pothole to verify. Working on obtaining as-built drawings	SD(P)	2.0	81.3 rd	83.0 rd	86.30	75.17	78.56	84.45	79.61	12074	yes, cond 13	1977	Gilsizer Drainage County Drainage District	701 Bogue Road, Yuba City, CA 95991	yes	yes	
21	14.98	C	16	1043+22	2,180,121.72	6,672,237.88	39°08'52.605"N	121°36'36.362"W	To construct a 24 inch steel pipe storm drainage discharge pipe crossing the west levee of the Feather River	Flatten Waterside Slope	Not sure if the pipeline meets the elevation requirement over 200 year WSEL. The type of pipe may or may not meet Title 23. Need to pothole to verify. Working on obtaining as-built drawings	SD(P)	4.0	81.3 rd	83.3 rd	86.20	75.17	78.56	84.45	79.61	7019	yes, cond 5	1970	Gilsizer Drainage County Drainage District	701 Bogue Road, Yuba City, CA 95991	yes	yes	
22	14.98	C	16	1043+03	2,180,106.36	6,672,244.70	39°08'52.453"N	121°36'36.276"W	Gilsizer Slough Storm Drain Facilities. A 16 inch welded steel discharge pipe crossing of levee. (copy of record drawings)	Flatten Waterside Slope	The pipeline is appears to meet the elevation requirement over 200 year WSEL based on the record information and type of pipe appears to meet Title 23. The cover over pipe is questionable. Appears no work required but need to pothole to verify.	SD(P)	1.3	83.30 rd	84.7 est	85.90	75.17	78.56	84.44	79.61	3112	yes, cond 4	1959	City of Yuba City	1201 Civic Center Blvd., Yuba City, CA 95991	yes	yes	
23	14.88	C	46	1037+50	Not Verified		Not Verified		Abandoned 8 inch gas line through levee. Removed per Permit-1445A	Flatten Waterside Slope	Not sure if the abandonment meets title 23 requirements. Pipe may need to be properly abandoned or completely removed.	GE					75.08	78.46	84.30	79.41	pre-1955 (installed) and 1445A (removed)	yes, cond 13	part of orig O&M 1955 and 1974 (abandon)	Pacific Gas & Electric	One Tower, Spear Tower, San Francisco, CA 94105	no	no	
24	14.43-15.26	C	16						4,400 lineal feet of Blanket Drain on landside slope of levee starting approx 0.20 miles downstream of 10th Street Bridge extending north	Flatten Waterside Slope											15034		1988	Levee District No. 1	243 Second Street, Yuba City, CA 95991	no	no	
25	14.67	C	16	1028+11	2,178,636.47	6,672,461.02	39°08'37.915"N	121°36'33.611"W	Power pole in waterside slope	Flatten Waterside Slope		EL				82.67										yes	yes	
26	14.73	C	16	1029+10	2,179,608.80	6,672,356.03	39°08'47.530"N	121°36'34.890"W	To bury existing two submarine telephone cables into two parallel trenches 100 feet apart in the channel of the Feather River. Both cables were installed per Permit 1334 in September 15, 1948.	Flatten Waterside Slope		TL	5.0			84.71					1334 and 11851	yes, cond. 13	1948 and 1977	Pacific Telephone and Telegraph Company	1426 Howe Avenue, Suite 50, Sacramento, CA 95825	yes	yes	
27	14.71	C	16	1028+10	2,179,506.59	6,672,370.16	39°08'46.519"N	121°36'34.717"W	To bury existing two submarine telephone cables into two parallel trenches 100 feet apart in the channel of the Feather River. Both cables were installed per Permit 1334 in September 15, 1948.	Flatten Waterside Slope		TL	2.0			84.77					1334 and 11851	yes, cond. 13	1948 and 1977	Pacific Telephone and Telegraph Company	1426 Howe Avenue, Suite 50, Sacramento, CA 95825	yes	yes	
28	14.68	C	16	1026+71	21,784,783.54	6,672,514.29	39°08'36.643"N	121°36'33.928"W	10" Drain line in levee water side slope for bridge area drainage	Flatten Waterside Slope	Not sure if the conduit meets the elevation requirement over 200 year WSEL. The type of conduit may or may not meet Title 23 but it is newer encroachment permit. Need to pothole to verify.	TL				89.72					16995					yes	yes	
29	14.64	C	16	1026+58	2,178,488.35	6,672,429.49	39°08'36.452"N	121°36'34.019"W	40 foot long retaining wall landside of levee just upstream of the Feather River Bridge	Flatten Waterside Slope		Road									15133	no	1988	Levee District No. 1	243 Second Street, Yuba City, CA 95991	yes	yes	
30	14.63	C	16	1026+22	2,178,451.96	6,672,425.20	39°08'36.093"N	121°36'34.075"W	Feather River Bridge (SR 20) upstream side	Flatten Waterside Slope		Bridge				94.25					pre-1955			Caltrans		yes	yes	
31	14.62	C	16	1025+32	2,178,375.92	6,672,443.76	39°08'35.340"N	121°36'33.844"W	Feather River Bridge (SR 20) downstream side	Flatten Waterside Slope		Bridge				93.90					pre-1955			Caltrans		yes	yes	
32	14.62	C	16						Seismic Retro of Feather River Bridge	Flatten Waterside Slope		Bridge									16324		1995	Caltrans				
33	14.62	C	16	1024+95	2,178,319.03	6,672,456.34	39°08'34.777"N	121°36'33.687"W	12 kv power line across levee	Flatten Waterside Slope		EL	OH			88.17										yes	yes	
34	14.61	C	16	1024+70			Not Verified		Backfill Community Swimming Pool located near the base of the Feather River Bridge (10th Street Bridge)	Flatten Waterside Slope											7599	yes, cond 13	1971	City of Yuba City	1201 Civic Center Blvd., Yuba City, CA 95991	no	no	
35	14.60	C	16	1024+48	2,178,296.55	6,672,470.53	39°08'34.556"N	121°36'33.508"W	40 foot long retaining wall landside of levee just downstream of the Feather River Bridge	Flatten Waterside Slope		Road									15133	no	1988	Levee District No. 1	243 Second Street, Yuba City, CA 95991	yes	yes	
36	14.56	C	16	1021+95	2,178,044.07	6,672,487.29	39°08'32.058"N	121°36'33.310"W	12 kv power line across levee	Flatten Waterside Slope		EL	OH			84.48									Pacific Gas & Electric	One Tower, Spear Tower, San Francisco, CA 94105	yes	yes
37	14.55	C	16				Not Verified		Telephone line on river slope of levee 260 feet downstream of Feather River Bridge (10th Street Bridge)	Flatten Waterside Slope		TL									2703		1957	AT&T				
38	14.55	C	16	1020+85	Not Verified		Not Verified		Abandon 4 inch pipe	Flatten Waterside Slope	Not sure if the abandonment meets title 23 requirements. Pipe may need to be properly abandoned or completely removed.		1.3	77.72			74.85	78.16	83.90	78.75						yes	yes	
39	14.52	C	16	1020+30	2,177,879.35	6,672,496.38	39°08'30.430"N	121°36'33.203"W	Telephone Call box on waterside hinge point	Flatten Waterside Slope		TL				84.09										yes	yes	
40	14.51	C	16	1019+82	2,177,832.15	6,672,504.71	39°08'29.963"N	121°36'33.100"W	Power pole in waterside slope	Flatten Waterside Slope		EL	OH			84.09										yes	yes	
41	14.43 to 15.26	C	16	1013+00			Not Verified		To place approximately 4,000 feet of blanket drain and filter trench on the right bank of levee of the Feather River upstream and downstream of the SR 20 Bridge	Flatten Waterside Slope		Struc									15034	no	1988	Levee District No. 1	243 Second Street, Yuba City, CA 95991	yes	yes	
42	14.36	C	16	1010+75	2,176,773.87	6,672,930.97	39°08'19.484"N	121°36'27.747"W	Install Guy within in landside slope of levee, 12 kV overhead electric	Flatten Waterside Slope		EL				85.00					2640	yes, cond 4	1957	Pacific Gas & Electric	One Tower, Spear Tower, San Francisco, CA 94105	yes	yes	
43	14.30	C	16	1008+38	2,176,779.63	6,672,929.15			12 kv power line across levee	Flatten Waterside Slope		EL	OH			84.62									Pacific Gas & Electric	One Tower, Spear Tower, San Francisco, CA 94105	yes	yes
44	14.60-14.79	C	16	1007+50			Not Verified		To construct approximately 1,300 feet of 12 foot wide bicycle trail on the crown of the right bank levee of the Feather River. The Project is located in Yuba City between the 5th Street Bridge and the easterly extension of Teagarden Avenue	Flatten Waterside Slope		Struc									16344	no	1995	County of Yuba	915 8th Street, Suite 125, Marysville, CA 95901	no	no	
45	14.30	C	16						Bike Path below Twin Cities Memorial Bridge	Flatten Waterside Slope		Road									16235		1992	City of Yuba City and City of Marysville	1201 Civic Center Blvd., Yuba City, CA 95991	yes	yes	
46	14.30	C	16	1007+51	2,176,709.34	6,672,981.09	39°08'18.844"N	121°36'27.115"W	Twin Cities Memorial Bridge upstream side	Flatten Waterside Slope		Bridge				87.92					2481	yes, cond 4	1957	County of Sutter and Yuba	1120 Civic Center Blvd., Yuba City, CA 95991	yes	yes	
47	14.30	C	16	1007+46	2,176,706.50	6,672,984.37	39°08'18.816"N	121°36'27.073"W	Light pole in water side levee slope	Flatten Waterside Slope		EL	OH											City of Yuba City	1201 Civic Center Blvd., Yuba City, CA 95991	yes	yes	
48	14.30	C	16	1007+06	2,176,671.72	6,673,005.93	39°08'18.471"N	121°36'26.801"W	Twin Cities Memorial Bridge downstream side	Flatten Waterside Slope		Bridge				87.99					2481	yes, cond 4	1957	County of Sutter and Yuba	1120 Civic Center Blvd., Yuba City, CA 95991	yes	yes	
49	14.30	C	16	1006+93	2,176,642.84	6,672,995.25	39°08'18.186"N	121°36'26.939"W	Power line and Anchor in Levee (actual location)	Flatten Waterside Slope		EL				87.92					2367		1957	Pacific Gas & Electric	One Tower, Spear Tower, San Francisco, CA 94105	yes	yes	
50	14.28	C	16	1006+60	2,176,647.27	6,673,046.63	39°08'18.228"N	121°36'26.286"W	Sacramento Northern Railroad	Flatten Waterside Slope		RR				86.76					pre-1955		part of orig O&M 1955	Union Pacific Railroad	1400 Douglas Stop #1640, Omaha, NE 68179	yes	yes	
51	14.28	C	16	1006+07	2,176,610.55	6,673,084.90	39°08'17.863"N	121°36'25.803"W	Power Pole and anchor in slope of levee. 100 feet south of the SNRR bridge w/ service power overhead	Flatten Waterside Slope		EL	OH			84.44					2475		1957	Pacific Gas & Electric	One Tower, Spear Tower, San Francisco, CA 94105	yes	yes	
52	14.25	C	16	1005+80			Not Verified		Authorize concrete steps ad 4 inch diameter PVC pipe on the landward slope and a pump house within 10 feet of the landward toe	Flatten Waterside Slope											16450	yes. Cond 15	1996	City of Yuba c/o Parks and Recreation	1201 Civic Center Blvd., Yuba City, CA 95991	no	no	
53	14.28	C	16	1003+72	2,176,461.52	6,673,266.98	39°08'16.382"N	121°36'23.500"W	Power Pole and anchor in slope of levee. 300 feet south of the SNRR bridge	Flatten Waterside Slope		EL	OH			83.28								Pacific Gas & Electric	One Tower, Spear Tower, San Francisco, CA 94105	yes	yes	

	Levee Mile	SBFCA Phase	SBFCA Reach	SBFCA STA	Location (NAD 83)		Location (WGS 84)		Encroachment	Proposed Levee Improvement	Required Improvement Work	Type	cover	Elevations (NGVD 1988)			Water Surface Elevation (NGVD 1988)				CVFPB Permit Information			Owner Information		verified	Picture Taken
					Northing	Easting	Latitude	Longitude						Invert of Pipe	Top of Pipe	Top of Levee	100 Yr	200 Yr	500 Yr	DWR 1957	Permit No.	Require Permittee to Relocate	Year	Name	Address		
54	14.22	C	16	1000+55			Not Verified		City of Yuba City. To replace the existing retaining wall with an 8 foot high, 76 foot long concrete retaining wall on the landside of the right (east) bank levee of Feather River.	Flatten Waterside Slope											16844	yes. Cond 27	1998	City of Yuba c/o Parks and Recreation	1201 Civic Center Blvd., Yuba City, CA 95993	no	no
55	14.23	C	16				Not Verified		Authorize a 3-wire barded wire fence and two mature trees at the landward toe. The project is located at 563 Second Street	Flatten Waterside Slope											16449	yes. Cond 18	1996	Levee District No. 1	430 Second Street, Yuba City, CA 95991	no	no
56	14.17	C	16				Not Verified		Authorize a 3-wire barded wire fence with a gate within 5 feet of the levee toe and two mature trees at the landward toe. The project is located on Keyser Street	Flatten Waterside Slope											16448	yes. Cond 17	1996	Levee District No. 1	430 Second Street, Yuba City, CA 95991	no	no
57	14.13	C	16				Not Verified		Authorize a 120 foot long building at the landward toe	Flatten Waterside Slope											16447	no	1996	Rodney and Eleanor Fletcher	511 Second Street, Yuba City, CA 95991	no	no
58	14.04	C	16				Not Verified		To excavate 25 feet into landward side of the right bank of the Feather River and construct a concrete retaining wall to provide parking lot space. The project is located at 463 2nd Street behind the Sutter County Administration Building	Flatten Waterside Slope		Struc									13951 and 13951 (revised)	yes. Cond 13 (original) and no (revised)	1984 & 1996 (revised)	County of Sutter	1160 Civic Center Boulevard, Yuba City, CA 95993	no	no
59	14.01	C	16	993+50			Not Verified		Authorize a building near the landward toe of the levee.	Flatten Waterside Slope											16446	yes. Cond 16	1996	Dolores Scott	160 C Street, Yuba City, CA 95991	no	no
60	13.84-14.01	C	16	993+56			Not Verified		To install approximately 1,010 feet of 8 foot high chain link fence on the waterside side of the right bank levee of the Feather River.	Flatten Waterside Slope											16499	no	1997	Levee District No. 1	430 Second Street, Yuba City, CA 95991	no	no
61	13.98	C	16				Not Verified		Authorize a shed, concrete wall, and chain-link fence with gate at landward toe. The permit also covers two steel posts on the shoulder and seventeen mature trees on the landward slope	Flatten Waterside Slope											16445	yes. Cond 18	1996	Joe and Patricia Benatar	423 Second Street, Yuba City, CA 95991	no	no
62	13.96	C	16				Not Verified		Authorize a shed at the landward toe	Flatten Waterside Slope											16444	yes. Cond 16	1996	Lois Murphy Brown	413 Second Street, Yuba City, CA 95991	no	no
63	13.95	C	16				Not Verified		Authorize a two-story garage and shop building at the landward toe and six mature trees on the landward slope	Flatten Waterside Slope											16443	no	1996	Marjorie Von Geldern	407 Second Street, Yuba City, CA 95991	no	no
64	13.94	C	16				Not Verified		Authorize a building at the landward toe and 21 mature trees and sprinkler system on the landward slope.	Flatten Waterside Slope											16442	no	1996	Max and Sandra McClendon	379 Second Street, Yuba City, CA 95991	no	no
65	13.93	C	17	988+05	2,175,065.02	6,673,942.87			3 inch steel pipe, does not appear to cross levee anymore	Cutoff Wall	Not sure if the abandonment meets title 23 requirements. Pipe may need to be properly abandoned or completely removed.						74.40	77.54	82.89	78.21				unknown		no	no
66	13.93	C	16				Not Verified		Authorize a garage and a shed at the landward toe	Flatten Waterside Slope											16441	yes. Cond 16	1996	Howard and Raona Hall	373 Second Street, Yuba City, CA 95991	no	no
67	13.91	C	16				Not Verified		Authorize a small building, a chain-link fence, four mature trees at the landward toe, and five clumps of oleanders on the landward slope.	Flatten Waterside Slope											16440	yes. Cond 20	1996	Est. James Barr	365 Second Street, Yuba City, CA 95991	no	no
68	13.90	C	16				Not Verified		Authorize a small building and a chain link fence on an existing retaining wall at the landward toe, concrete stairs, a steel pipe frame, and two large mature trees on the landward slope. A hose bib on the landward shoulder of the right bank of levee.	Flatten Waterside Slope											16439	no	1996	Mark Poole	355 Second Street, Yuba City, CA 95991	no	no
69	13.88	C	16				Not Verified		Authorize a see-through fence on a 5 foot retaining wall, steps, and nine mature trees on the landward slope.	Flatten Waterside Slope											16438	yes. Cond 20	1996	Charles and Jean Sanders	349 Second Street, Yuba City, CA 95991	no	no
70	13.87	C	16				Not Verified		Authorize concrete steps with railing and pomegranate bush on landward slope. The permit also covers a concrete retaining wall at the landward toe	Flatten Waterside Slope											16437	yes. Cond 16	1996	Theodore and Mary Wilkins	341 Second Street, Yuba City, CA 95991	no	no
71	13.86	C	16				Not Verified		Authorize Chain Link fence with gate, three oleander trees, and steps within the landward slope.	Flatten Waterside Slope											16436	yes. Cond 18	1996	Glenn and Jean Koball	335 Second Street, Yuba City, CA 95991	no	no
72	13.84	C	16				Not Verified		Authorize Chain Link fence with gate, three oleander trees, and steps within the landward slope.	Flatten Waterside Slope											16435	yes. Cond 21	1996	Steve and Nancy Albrecht	329 Second Street, Yuba City, CA 95991	no	no
73	13.81	C	16				Not Verified		Authorize building, barbed wire fence, and ten trees at landward toe	Flatten Waterside Slope											16434	yes. Cond 21	1996	Dennis Coakley	306 West 24th Avenue, San Mateo, CA 94403	no	no
74	13.77	C	16				Not Verified		Authorize a 60 foot long see-through board fence and 75 foot long clothesline and landward toe. A shed 5 feet from landward toe and a mature oak tree on the landward slope.	Flatten Waterside Slope											16433	yes. Cond 17	1996	Ronald Souza	1550 Elizabeth Lane, Yuba City, CA 95993	no	no
75	13.76	C	16				Not Verified		Authorize a chain-link fence with gate within 10 feet of landward toe	Flatten Waterside Slope											16432	yes. Cond 19	1996	Stevenson Family Trust	459-1/2 Palora Avenue, Yuba City, CA 95991	no	no
76	13.75	C	16				Not Verified		Authorize a see-through fence and storage shed within 10 feet of the landward toe. The project is located at 265 Second Street, Yuba City, CA	Flatten Waterside Slope											16431	yes. Cond 17	1996	Margaret Kellett	265 Second Street, Yuba City, CA 95991	no	no
77	13.74	C	16				Not Verified		Authorize a see-through fence and storage shed within 5 feet of the landward toe. The project is located at 261 Second Street, Yuba City, CA	Flatten Waterside Slope											16430	yes. Cond 19	1996	Ernest Sandoval	22301 Dersch Road, Anderson, CA 96007	no	no
78	13.73	C	16				Not Verified		Authorize a Chain Link fence with gate within 5 feet of landward toe, a cedar tree at the landward toe, and stone steps on the landward slope. This project is located at 255 Second Street.	Flatten Waterside Slope											16429	yes. Cond 17	1996	Teresa Filby	2072 Sanborn, Yuba City, CA 95993	no	no
79	13.68	C	16				Not Verified		Authorize a shed and three trees at the landward toe of the right bank levee of the Feather River. The project is located at 225 Second Street, Yuba City, CA 95591	Flatten Waterside Slope											16428	no	1996	Minnie and Marvin Cole	2061 Royo Rancho Road, Yuba City, CA 95993	no	no
80	13.67	C	16				Not Verified		Authorize a 6 foot high chain link fence and gate at the right bank levee of the Feather River	Flatten Waterside Slope											16427	yes. Cond 17	1996	Dossie and Wanda Smith	219 Second Street, Yuba City, CA 95991	no	no
81	13.65	C	16				Not Verified		Authorize a residence within 5 feet of the landward toe	Flatten Waterside Slope											16426	yes. Cond 16	1996	Ronald Brockman	209 Second Street, Yuba City, CA 95991	no	no
82	13.64	C	16				Not Verified		Authorize a residence at landward toe and oak on the landward slope	Flatten Waterside Slope											16425	no	1996	Carl and Sandra Stout	201 Second Street, Yuba City, CA 95991	no	no
83	13.55	C	16	975+00			Not Verified		To construct a restroom facility with septic tank and leach lines at the Yuba City Boat Ramp on the right bank of the Feather River.	Flatten Waterside Slope											10967	yes, cond 13	1976	County of Sutter	1160 Civic Center Blvd., Suite D, Yuba City, CA 95993		
84	13.53	C	16	972+00			Not Verified		To construct improvement for the boat launching ramp and related facilities on the right bank of the Feather River.	Flatten Waterside Slope											2623	yes, cond 4	1957	Department of Fish and Game		no	no
85	13.53	C	16	972+00			Not Verified		To construct improvement for the Yuba City Boat Ramp consisting of a paved parking area, restroom facilities, floating boat dock and extension of concrete boat ramp on the right bank of the Feather River.	Flatten Waterside Slope											5741, 11989	no	1991	County of Sutter	1160 Civic Center Blvd., Suite D, Yuba City, CA 95993		
86	13.53	C	16	972+00			Not Verified		To reconstruct an existing access road to the Yuba-Sutter Boat Ramp on the right bank of the Feather River	Flatten Waterside Slope											9294	yes, cond 13	1974	County of Sutter	1160 Civic Center Blvd., Suite D, Yuba City, CA 95993		
87	13.53	C	16	972+00			Not Verified		To maintain and operate existing boat dock for public use for boating, fishing, and a campground with related facilities including a mobile home on the right bank of the Feather River.	Flatten Waterside Slope											10830, 15741	yes, cond 13	1978	William Baldner	80 2nd Street, Yuba City, CA 95991		
		C	15/16	968+50					Reach 15/16 Transition																		
88		C	15	968+00			Not Verified		To construct 120 lineal feet of sheet piles retaining wall, and nine 10 x 10 foot boat docks supported by seven 12 inc diameter steel piles to an existing 30 foot wide ramp (Yuba City Boat Ramp)	Cutoff Wall	Located within floodway. Does not affect levee project.										17230	yes. Cond 26	2000	County of Sutter	1160 Civic Center Boulevard, Yuba City, CA 95993		
		C	14/15	954+40					Reach 14/15 Transition																		
89		C	14				Not Verified		12 kv cable	No Rehabilitation Required																	



LEVEE ENCROACHMENT LIST

APPENDIX A

	Levee Mile	SBFCA Phase	SBFCA Reach	SBFCA STA	Location (NAD 83)		Location (WGS 84)		Encroachment	Proposed Levee Improvement	Required Improvement Work	Type	cover	Elevations (NGVD 1988)			Water Surface Elevation (NGVD 1988)				CVFPP Permit Information			Owner Information				
					Northing	Easting	Latitude	Longitude						Invert of Pipe	Top of Pipe	Top of Levee	100 Yr	200 Yr	500 Yr	DWR 1957	Permit No.	Require Permittee to Relocate	Year	Name	Address	verified	Picture Taken	
		C	13/14	927+00					Reach 13/14 Transition																			
90	12.50-13.07	C	15	925+00				Not Verified		To construct access ramps	Cutoff Wall									7460A		1974	County of Sutter	1160 Civic Center Boulevard, Yuba City, CA 95993				
90	12.51	C	13	913+19	2,168,046.21	6,673,496.81	39°06'53.190"N	121°36'21.046"W	Two 16 inch gas lines. (PG&E map shows the gas lines as 12 inch)	Cutoff Wall and relief wells at 200 foot and 65 feet deep	The pipeline is appears to meet the elevation requirement over 200 year WSEL based on the record information and type of pipe might appears to meet Title 23. Appears no work required.	GL	3.0			82.00	72.16	75.17	80.17	77.14				Pacific Gas & Electric	One Tower, Spear Tower, San Francisco, CA 94105	yes	yes	
91	12.15	C	13	894+23	2,166,221.70	6,673,147.49	39°06'35.171"N	121°36'25.578"W	To install a 12kv buried power cable through the right bank levee and across the right bank overflow of the Feather River, a total distance of 896 feet. Poles will be installed near the top of the banks of the low water channel and aerial cable will be placed between the two poles which will be connected to the underground cable.	Cutoff Wall and relief wells at 200 foot and 65 feet deep		EL	UG								12407	yes, cond. 13	1978	Pacific Gas and Electric Company	One Tower, Spear Tower, San Francisco, CA 94105	no	no	
92	12.14	C	13	893+84	2,166,181.41	6,673,142.43	39°06'34.772"N	121°36'25.614"W	Garden Highway Industrial Park. To install a 12 inch steel storm drain pipeline through the right bank levee of the Feather River	Cutoff Wall and relief wells at 200 foot and 65 feet deep	The pipeline is appears to meet the elevation requirement over 200 year WSEL based on the record information and type of pipe might appears to meet Title 23. Appears no work required. We have as-built drawings.	SD(P)	3.3	77.70	78.70	82.00	71.72	74.77	79.80	76.93	12827	yes, cond. 13	1979	City of Yuba City	1201 Civic Center Blvd., Yuba City, CA 95991	yes	yes	
93	12.12	C	13	893+78	2,166,175.45	6,673,142.43	39°06'34.772"N	121°36'25.614"W	Burns Drive Storm Water Pump Station. 16 inch steel storm drain discharge pipe through levee.	Cutoff Wall and relief wells at 200 foot and 65 feet deep	The pipeline is appears to meet the elevation requirement over 200 year WSEL based on the record information and type of pipe might appears to meet Title 23. Appears no work required. We have as-built drawings.	SD(P)	2.7	77.97	79.30	82.00	71.72	74.77	79.80	76.93	15863	?	1992	City of Yuba City	1201 Civic Center Blvd., Yuba City, CA 95991	yes	yes	
94	11.90	C	13	881+41	2,164,942.19	6,673,036.13	39°06'22.535"N	121°36'27.067"W	Levee District No. 1 Relief Well Pump Station 6" and 14" pipes located just southeast of the Waste Water Treatment Plant	Cutoff Wall and relief wells at 200 foot and 65 feet deep	The pipeline is appears to meet the elevation requirement over 200 year WSEL based on the record information and type of pipe appears to meet Title 23. The cover over pipe is questionable. Appears no work required but need to pothole to verify.	RW(P)	5.1	75.23	76.40	81.50	71.49	74.54	79.57	76.79					Levee District No. 1	243 Second Street, Yuba City, CA 95991	yes	yes
95	11.43	C	13	856+23	2,162,702.52	6,674,085.34	39°06'05.587"N	121°36'18.675"W	South Yuba City Storm Drainage Pump Station 24 inch 7 GA Steel Pipe asphalt coated and wrapped with asphalt saturated felt discharge pipe	Cutoff Wall and relief wells at 200 foot and 65 feet deep	The pipeline is appears to meet the elevation requirement over 200 year WSEL based on the record information and type of pipe might appears to meet Title 23. Appears no work required. We have as-built drawings.	SD(P)	5.2	76.80	78.80	82.00	70.94	74.02	79.04	76.38	15565	no	1992	City of Yuba City	1201 Civic Center Blvd., Yuba City, CA 95991	yes	yes	
96	11.43	C	13	856+08	2,162,689.81	6,674,093.30	39°06'05.587"N	121°36'18.675"W	South Yuba City Seepage Interceptor Pump Station 24 inch 7 GA Steel Pipe asphalt coated and wrapped with asphalt saturated felt discharge pipe	Cutoff Wall and relief wells at 200 foot and 65 feet deep	The pipeline is appears to meet the elevation requirement over 200 year WSEL based on the record information and type of pipe might appears to meet Title 23. Appears no work required. We have as-built drawings.	SD(P)	5.2	76.80	78.80	82.00	70.94	74.01	79.03	76.37	15565	no	1992	City of Yuba City	1201 Civic Center Blvd., Yuba City, CA 95991	yes	yes	
97	11.24-11.95	C	13						Seepage Interceptor Trench and additional relief wells. The improvements were adjacent to the River Oaks subdivision between the wastewater treatment plant and Shanghai Road. All work on landside of levee.	Cutoff Wall and relief wells at 200 foot and 65 feet deep											15850		1991	City of Yuba City	1201 Civic Center Blvd., Yuba City, CA 95991	no	no	
98	10.80-16.00	C	16					Not Verified		Bike Path below Twin Cities Memorial Bridge	Flatten Waterside Slope		Road								16820	yes. Cond 28	1998	City of Yuba City	1201 Civic Center Blvd., Yuba City, CA 95991			
		C	12/13	845+00						Reach 12/13 Transition																		
99	10.60-11.15		12							Shanghai Bend Road Setback levee project	No Rehabilitation Required														USACE	1325 J Street, Sacramento, CA	no	no
		B	11/12	830+00						Reach 11/12 Transition																		
100	10.57	B	11	828+55	2,160,267.77	6,675,134.01	39°05'36.240"N	121°36'00.697"W	City of Yuba City Sewer 24 inch welded steel pipe mortar lined and coated pipe (wall thickness 0.188" min) Discharge Pipe to river diffuser	Cutoff Wall	The pipeline is appears to meet the elevation requirement over 200 year WSEL based on the record information and type of pipe might appears to meet Title 23. Appears no work required. We have as-built drawings.	WW(P)	2.3	75.70 rd	77.8 est	79.80	69.02	72.20	77.24	75.15	7151D	yes, cond 13?	1974	City of Yuba City	1201 Civic Center Blvd., Yuba City, CA 95991	yes	yes	
101	10.47	B	11					Not Verified		To place an 18 inch storm drain pipeline through the levee on the right bank of the Feather River (project was not completed - no pipeline installed)	Cutoff Wall		SD(P)								13219	yes, cond 13	1981	Hauss and Steel Inc.	3909 Garden Highway, Yuba City, CA 95991	n/a	n/a	
	9.55	B	10/11	774+00						Reach 10/11 Transition																		
102	9.50	B	10					Not Verified		Construct gauging station 150 feet downstream of Shanghai Bend	Cutoff Wall											4033	yes, cond 5	1962	Department of Water Resources	1120 N Street, Sacramento, CA	no	no
103	9.11	B	10	750+40	2,152,869.21	6,673,338.66	39°04'23.178"N	121°36'23.886"W	115 kv steel tower transmission line crossing of levee	Cutoff Wall		EL	OH									7647		1971	Pacific Gas and Electric Company	One Tower, Spear Tower, San Francisco, CA 94105	yes	yes
104	9.10	B	10	750+10	2,152,823.05	6,673,332.24	39°04'22.722"N	121°36'23.970"W	12 kv power line crossing of levee	Cutoff Wall		EL										3665	yes, cond 5	1961	Pacific Gas and Electric Company	One Tower, Spear Tower, San Francisco, CA 94105	yes	yes
	8.27	B	9/10	706+50						Reach 9/10 Transition																		
105	8.00	B	9	692+00				Not Verified		To construct 140 lineal feet of sheet piles retaining wall, and nine 10 x 20 foot boat docks supported by seven 12 inch diameter steel piles to an existing 30 foot wide ramp (Boyd Pump Boat Ramp)	Cutoff Wall											1723, 11586, 11587	yes. Cond 26	2000	County of Sutter	1160 Civic Center Boulevard, Yuba City, CA 95993		
106	7.94	B	9	692+00				Not Verified		To improve the existing Boyd Pump Boat Launching Facility by widening the existing ramp to 30 feet with 4 foot walkways on each side, paving existing access road, and expanding parking area by 25 spaces, and placing riprap on the right bank of the Feather River.	Cutoff Wall		Struc									14380	yes, cond 13	1985	County of Sutter	1160 Civic Center Boulevard, Yuba City, CA 95993	yes	yes
107	7.94	B	9	692+00				Not Verified		To construct boat launching ramp, well, pump, pressure system, and sanitary facilities on the right bank overflow of the Feather River	Cutoff Wall		Struc									2675	yes, cond 5	1958	Department of Fish and Game		no	no
108	7.94	B	9	689+09	2,146,949.33	6,672,031.04	39°03'24.759"N	121°36'40.813"W	Oswald Mutual Water Company (Boyd's Pump) 18 inch epoxy coated mortar lined steel pipe through existing 24 inch concrete pipe crossing of levee	Cutoff Wall	The pipeline does not meet title 23 requirements and will need a positive shut-off structure installed and gate valve at pump. Pumping up and over levee does not appear to be feasible.	IR(P)	27.6	46.00	48.20	75.80	65.22	68.52	73.36	70.91	pre-1955 & 18181	yes, cond 29	part of orig O&M 1955 & 2007	Oswald Mutual Water Company	Yuba City, CA 95991	yes	yes	
109	7.94	B	9	689+00	2,146,953.52	6,672,029.11	39°03'24.759"N	121°36'40.813"W	To replace an existing pole line with a new pole line across the right bank levee of the Feather River. A new pole will be placed 10 feet landward of the landward toe of the levee and another pole will be placed 24 feet water ward of the water ward toe of the levee.	Cutoff Wall		EL	OH			75.94						11663	yes, cond 13	1976	Pacific Gas and Electric Company	5555 Florin Perkins Road, Sacramento, CA 95826	yes	yes
110	7.94	B	9	689+00	2,146,953.52	6,672,029.11	39°03'24.759"N	121°36'40.813"W	To place a service line on a PG&E pole crossing the right bank levee of the Feather River	Cutoff Wall		TL	OH			75.94						11610	yes, cond 13	1976	Pacific Gas and Electric Company	1426 Howe Avenue, Suite 50, Sacramento, CA 95826	yes	yes
111	7.47	B	9	664+07	2,144,450.88	6,672,127.42	39°03'00.186"N	121°36'39.792"W	Sierra Gold Nursery. An 8 inch steel pipe through levee. This pipe was pressure checked and in 1984 as part of permit 13980 to connect to existing pipe.	Cutoff Wall	Not sure if the pipeline meets the elevation requirement over 200 year WSEL. The type of pipe may or may not meet Title 23. Need to pothole to verify.	SD(P)	3.6	70.23	70.90	74.50	64.57	67.89	72.68	69.90	pre-1955 & 13980	yes, cond 13	part of orig O&M 1955 & 1984	Sierra Gold Nursery	5320 Garden Highway, Yuba City, CA 95991	yes	yes	
112	7.40 - 7.64	B	9	664+20				Not Verified		To reconstruct and pave a 12 foot wide, approximately 1370 feet long road on the landside toe of the right bank levee of the Feather River	Cutoff Wall			4.0								17128	yes. Cond 23	1999	Sierra Gold Nursery	5320 Garden Highway, Yuba City, CA 95991		
	7.29	B	8/9	654+75						Reach 8/9 Transition																		
113	7.18	B	8	649+11	2,142,954.74	6,672,128.18	39°02'45.228"N	121°36'39.774"W	12 kv power line across levee 1900 feet downstream of Mesick Road	Cutoff Wall		EL	OH									4017 & 4378		1962 & 1963	Pacific Gas & Electric	One Tower, Spear Tower, San Francisco, CA 94105	yes	yes

LEVEE ENCROACHMENT LIST

APPENDIX A

	Levee Mile	SBFCA Phase	SBFCA Reach	SBFCA STA	Location (NAD 83)		Location (WGS 84)		Encroachment	Proposed Levee Improvement	Required Improvement Work	Type	cover	Elevations (NGVD 1988)			Water Surface Elevation (NGVD 1988)				CVFPB Permit Information			Owner Information		verified	Picture Taken
					Northing	Easting	Latitude	Longitude						Invert of Pipe	Top of Pipe	Top of Levee	100 Yr	200 Yr	500 Yr	DWR 1957	Permit No.	Require Permittee to Relocate yes, cond 5	Year	Name	Address		
114	7.16	B	8	647+74	2,142,830.08	6,672,119.48	39°02'43.998"N	121°36'39.919"W	Feather Water District North Pump Station 1-26" irrigation discharge pipes	Cutoff Wall	The pipeline appears to meet the elevation requirement over 200 year WSEL. May not meet 1957 profile requirement. The type of pipe may or may not meet Title 23. Appears no work required.	IR(P)	1.6	69.90	71.90	73.50	64.28	67.60	72.36	69.33	4127	yes, cond 5	1962	Feather Water District	280 Wilkie Avenue, Yuba City, CA 95991	yes	yes
115	7.16	B	8	647+70	2,142,826.16	6,672,118.89	39°02'43.961"N	121°36'39.926"W	Feather Water District North Pump Station 1-26" irrigation discharge pipes	Cutoff Wall	The pipeline appears to meet the elevation requirement over 200 year WSEL. The type of pipe may or may not meet Title 23. Appears no work required.	IR(P)	1.3	70.15	72.15	73.50	64.28	67.60	72.36	69.33	4127	yes, cond 5	1962	Feather Water District	280 Wilkie Avenue, Yuba City, CA 95991	yes	yes
116	7.16	B	8	647+66	2,142,822.01	6,672,118.27	39°02'43.917"N	121°36'39.942"W	Feather Water District North Pump Station 1-26" irrigation discharge pipes	Cutoff Wall	The pipeline appears to meet the elevation requirement over 200 year WSEL. May not meet 1957 profile requirement. The type of pipe may or may not meet Title 23. Appears no work required.	IR(P)	1.4	70.10	72.10	73.50	64.28	67.60	72.36	69.33	4127	yes, cond 5	1962	Feather Water District	280 Wilkie Avenue, Yuba City, CA 95991	yes	yes
117	7.16	B	8	647+61	2,142,817.52	6,672,117.60	39°02'43.870"N	121°36'39.951"W	Feather Water District North Pump Station 1-26" irrigation discharge pipes	Cutoff Wall	The pipeline appears to meet the elevation requirement over 200 year WSEL. The type of pipe may or may not meet Title 23. Appears no work required.	IR(P)	1.3	70.15	72.15	73.50	64.28	67.60	72.36	69.33	4127	yes, cond 5	1962	Feather Water District	280 Wilkie Avenue, Yuba City, CA 95991	yes	yes
118	6.69	B	8	622+79	2,140,350.59	6,671,955.66	39°02'19.494"N	121°36'42.102"W	12 kv power line across levee	Cutoff Wall		EL	OH								4003		1962	Pacific Gas & Electric	One Tower, Spear Tower, San Francisco, CA 94105	yes	yes
	6.41	B	7/8	596+00					Reach 7/8 Transition																		
119	6.35	B	7	592+67	2,137,447.24	6,671,791.94	39°01'50.802"N	121°36'44.334"W	12 kv power line across levee	565+00 to 596+00 Cutoff Wall		EL	OH								4530	yes, cond 5	1963	Pacific Gas & Electric	One Tower, Spear Tower, San Francisco, CA 94105	yes	yes
120	6.00	B	7	587+00	2,136,925.70	6,671,619.94	39°01'45.654"N	121°36'46.542"W	Spur Levee upstream of Abbott Lake	565+00 to 598+87 Cutoff Wall											3787 and 4254	yes, cond 5	1961 and 1963	C.E. Sullivan	5320 Garden Highway, Yuba City, CA 95991	yes	yes
121	5.5 - 6.2	B	7	560+00			Not Verified		To fill in approximately one mile of an existing irrigation ditch at the waterside toe of the right bank of the Feather River.	510+37 to 546+00 Cutoff Wall		Struc									14717	no	1987	Department of Fish and Game	1701 Nimbus Road, Ranch Cordova, CA 95670		
122	5.50	B	7	560+00			Not Verified		To construct a water well with a 14 inch casing in the right bank overflow of the Feather River at Abbott Lake	510+37 to 546+00 Cutoff Wall		Struc									12837	yes, cond. 13	1980	A.S. Cozzolino	9 Cozzolino Drive, Millbrae, CA 94030	no	no
123	5.50	B	7	560+00			Not Verified		To extend approximately 2,500 of 12kv electric service line in the right bank overflow area of the Feather River near Abbott Lake to serve 25 HP Ax Pump for A.S. Cozzolino.	510+37 to 546+00 Cutoff Wall		EL	OH								12832	yes, cond. 13	1980	Pacific Gas & Electric Company	5555 Florin-Perkins Road, Sacramento, CA 95826	no	no
124	5.22	B	7	545+41	2,132,940.57	6,672,317.26	39°01'06.071"N	121°36'37.818"W	Crushed CMP Riser in Land Side Slope. Possible location of 8 inch steel pipe.	510+37 to 546+00 Cutoff Wall	Not sure if the abandonment meets title 23 requirements. Pipe may need to be properly abandoned or completely removed.	IR(A)	3.1	67.33	68.00	71.10	63.16	66.46	71.05	67.11	pre-1955		part of orig O&M 1955			yes	yes
125	5.05	B	7	536+73	2,132,153.19	6,672,681.57	39°00'58.434"N	121°36'33.348"W	Existing 10 inch steel pipe. Removed in 1964 by Levee District No. 1 as part of permit 4775	510+37 to 546+00 Cutoff Wall	Not sure if the abandonment meets title 23 requirements. Pipe may need to be properly abandoned or completely removed.	IR(P)									pre-1955 and 4775	yes, cond 5	part of orig O&M 1955	Levee District No. 1	243 Second Street, Yuba City, CA 95991	yes	yes
126	5.05	B	7	536+64	2,132,149.73	6,672,692.81			5 inch steel drainage pipe	510+37 to 546+00 Cutoff Wall	Not sure if the pipeline meets the elevation requirement over 200 year WSEL. The type of pipe may or may not meet Title 23. Need to pothole to verify.	SD(P)	2.0			70.50	63.04	66.34	70.91	66.94	2161	yes, cond 5	1955	C.E. Sullivan	5320 Garden Highway, Yuba City, CA 95991	no	no
127	4.91	B	7	529+47	2,131,549.40	6,673,081.12			Abandon 6 inch pipe	510+37 to 546+00 Cutoff Wall	Not sure if the abandonment meets title 23 requirements. Pipe may need to be properly abandoned or completely removed.	IR(A)	4.0			70.60	62.95	66.25	70.81	66.72	pre-1955		part of orig O&M 1955			no	no
128	4.50- 5.25	B	7						Seepage Interceptor Trench for Star Bend Relief Well Pumps	510+37 to 546+00 Cutoff Wall														USACE	1325 J Street, Sacramento, CA	yes	yes
129	4.50	B	7	512+08	2,130,379.55	6,674,329.99	39°00'40.852"N	121°36'12.526"W	Corp of Engineers Star Bend Road Relief Well Pump Station north 15" Steel Discharge Pipe Crossings	510+37 to 546+00 Cutoff Wall	The pipeline meets the elevation requirement over 200 year WSEL based on the as-built information and type of pipe meets Title 23 requirements. Does not require any work. It does not meet 1957 criteria	SD(P)	3.8	66.15	67.40	71.20	62.77	66.06	70.59	66.37	no permit issued	no		USACE	1325 J Street, Sacramento, CA	yes	yes
130	4.50	B	7	512+04	2,130,375.66	6,674,332.71	39°00'40.814"N	121°36'12.492"W	Corp of Engineers Star Bend Road Relief Well Pump Station south 15" Steel Discharge Pipe Crossings	510+37 to 546+00 Cutoff Wall	The pipeline meets the elevation requirement over 200 year WSEL based on the as-built information and type of pipe meets Title 23 requirements. Does not require any work. It does not meet 1957 criteria	SD(P)	3.7	66.25	67.50	71.20	62.77	66.06	70.59	66.37	no permit issued	no		USACE	1325 J Street, Sacramento, CA	yes	yes
131	4.50	B	7	510+97	2,130,288.81	6,674,393.77	39°00'39.904"N	121°36'11.680"W	12 kv power line crossing of levee	510+37 to 546+00 Cutoff Wall		EL	OH			72.22					5072	yes, cond 5	1965	Pacific Gas & Electric	One Tower, Spear Tower, San Francisco, CA 94105	yes	yes
	4.49	B	6/7	510+37					Reach 6/7 Transition																		
132	4.0- 4.19		6	510+50			Not Verified		To retain a 12 kv overhead service line and four power poles in the right bank overflow area of the Feather River.	No Rehabilitation Required		EL	OH								15786	no	1992	Pacific Gas & Electric	One Tower, Spear Tower, San Francisco, CA 94105	yes	yes
133	4.48		6	510+36	2,130,239.19	6,674,428.41	39°00'39.435"N	121°36'11.304"W	Volcano Vista Farms 18 inch steel irrigation discharge pipe crossing of levee	No Rehabilitation Required	The pipeline meets the elevation requirement over 200 year WSEL based on the as-built information and type of pipe meets Title 23 requirements. Does not require any work.	IR(P)	4.0	68.08 rd	69.6 est	73.64	62.75	66.05	70.57	66.35	18438	yes. Cond 19	2009	Volcano Vista Farms	P.O. Box 9, Meridian, CA 95957	yes	yes
134	4.08		6	510+30					To install 20 hp irrigation pump and to retain an existing walnut orchard (35 acres) all on the right bank of the Feather. Now owned by Volcano Vista Farms and located on Tudor Mutual Pump Station (relapsed pipeline not of permit 18438).	No Rehabilitation Required		IR(P)									10551	yes, cond 13	1975	John R. Johnson/M.L. Gilbertson	8104 Garden Highway, Yuba City, CA 95991	no	no
135	4.48		6	510+25	2,130,230.41	6,674,434.54	39°00'39.345"N	121°36'11.232"W	Tudor Mutual Water Company North 30 inch steel irrigation discharge pipes crossing of levee	No Rehabilitation Required	The pipeline meets the elevation requirement over 200 year WSEL based on the as-built information and type of pipe meets Title 23 requirements. Does not require any work.	IR(P)	4.2	66.92 rd	69.5 est	73.68	62.75	66.05	70.57	66.35	18437	yes. Cond 19	2009	Tudor Mutual Water Company	280 Wilkie Avenue, Yuba City, CA 95991	yes	yes
136	4.48		6	510+20	2,130,222.24	6,674,437.45	39°00'39.306"N	121°36'11.196"W	Tudor Mutual Water Company South 30 inch steel irrigation discharge pipes crossing of levee	No Rehabilitation Required	The pipeline meets the elevation requirement over 200 year WSEL based on the as-built information and type of pipe meets Title 23 requirements. Does not require any work.	IR(P)	4.1	66.92 rd	69.5 est	73.57	62.75	66.05	70.57	66.35	18437	yes. Cond 19	2009	Tudor Mutual Water Company	280 Wilkie Avenue, Yuba City, CA 95991	yes	yes
	4.27		6				levee removed		12 inch steel pipe through levee (this pipeline removed as part of 2009 setback levee)	No Rehabilitation Required											pre-1955		part of orig O&M 1955			no	no
	4.25		6				levee removed		12 kv power line crossing of levee (this portion of levee removed in 2009 as part of Setback Levee)	No Rehabilitation Required											2502	yes, cond 4	1957	Pacific Gas & Electric	One Tower, Spear Tower, San Francisco, CA 94105	no	no
	4.18		6				levee removed		12 kv power line crossing including 9 power poles and 3 anchors. (appears to cover permit 2502 and 5072)	No Rehabilitation Required											10552	yes, cond 13	1975	Pacific Gas & Electric	One Tower, Spear Tower, San Francisco, CA 94105	no	no
	4.15		6				levee removed		Abandon 14 inch pipe (this pipeline removed as part of 2009 setback levee project). Listed as 10" Steel in original 1955 O&M manual.	No Rehabilitation Required		IR(P)	4.1								pre-1955		part of orig O&M 1955			no	no
137	3.8- 4.0		6	508+00					To clear, level, and plant a peach orchard on approximately 170 acres on the right bank of the Feather River.	No Rehabilitation Required		Trees									13033	yes. Cond 31	1980	Mark Teesdale	Route 2, Box 2518, Oroville, CA 95965	no	no
138	3.75 - 4.50		6						3,400 lineal feet of setback levee and removal of 4,500 lineal feet of existing levee	No Rehabilitation Required											18191	yes. Cond 31	2009	Levee District No. 1	243 Second Street, Yuba City, CA 95991	no	no
	3.76	A	5/6	478+68					Reach 5/6 Transition																		
139	3.70		5	475+00			Not Verified		To plant walnut orchard in the right overflow area of the Feather River downstream from Star Bend	456+00 to 478+68 Cutoff Wall and 200 foot Seepage Berm		Trees									6641	yes, cond 5	1969	Leo Gildersleeve	8104 Garden Highway, Yuba City, CA 95991	no	no
	3.44	A	5	461+00					Urban (200 year) North - Nonurban (100 year) South Transition																		
140	3.42	A	5	460+11	2,125,845.57	6,676,268.36	38°59'55.716"N	121°35'48.216"W	Abandon 8" steel drainpipe	456+00 to 478+68 Cutoff Wall and 200 foot Seepage Berm	Not sure if the abandonment meets title 23 requirements. Pipe may need to be properly abandoned or completely removed.	IR(A)	4.1			68.10	60.79	64.06	68.37	63.77	pre-1955		part of orig O&M 1955			yes	yes

LEVEE ENCROACHMENT LIST

APPENDIX A

	Levee Mile	SBFCA Phase	SBFCA Reach	SBFCA STA	Location (NAD 83)		Location (WGS 84)		Encroachment	Proposed Levee Improvement	Required Improvement Work	Type	cover	Elevations (NGVD 1988)			Water Surface Elevation (NGVD 1988)				CVFPP Permit Information			Owner Information		verified	Picture Taken	
					Northing	Easting	Latitude	Longitude						Invert of Pipe	Top of Pipe	Top of Levee	100 Yr	200 Yr	500 Yr	DWR 1957	Permit No.	Require Permittee to Relocate	Year	Name	Address			
141	3.09	A	5	442+80	2,124,212.69	6676803.8			Abandon 8" steel drainpipe	456+00 to 478+68 Cutoff Wall and 200 foot Seepage Berm	Not sure if the abandonment meets title 23 requirements. Pipe may need to be properly abandoned or completely removed.	IR(A)	4.1				60.24	63.47	67.69	63.12	pre-1955		part of orig O&M 1955			yes	yes	
142	2.95	A	5	433+50	2,123,304.56	6,677,004.67	38°59'30.780"N	121°35'39.072"W	Power line across levee to service pole with meter on waterside slope of levee	410+67 to 478+68 Cutoff Wall		EL													yes	yes		
143	2.60	A	5	417+66	Not Verified			pipe removed	Abandon Existing 24 inch pipe through levee. The permit was revised to removal of 24 inch via 4666A so there should not be any pipe.	410+67 to 478+68 Cutoff Wall		SD(G)									pre-1955 (install) and 4666 (remove)	yes, cond 5	part of orig O&M 1955 and 1964	Levee District No. 1	243 Second Street, Yuba City, CA 95991	no	no	
	2.49	A	4/5	410+67					Reach 4/5 Transition																			
144	2.47	A	4	410+53	2,121,173.09	66,776,661.21	38°59'09.036"N	121°35'31.038"W	Power line crossing to Feather Water District Pumps	Cutoff Wall		EL	OH									4464	yes, cond 5	1963	Pacific Gas & Electric	One Tower, Spear Tower, San Francisco, CA 94105	yes	yes
145	2.47	A	4	409+84	2,121,105.29	6,677,660.77	38°59'09.036"N	121°35'31.038"W	To install a 2 inch electrical conduit through the levee. The conduit will be buried in the levee slopes and through the crown with one foot of cover. The conduit will provide electrical service to an existing pumping plant in the floodway of the Feather River.	Cutoff Wall	Not sure if the conduit meets the elevation requirement over 200 year WSEL. The type of conduit may or may not meet Title 23. Need to pothole to verify.	EL	2.0			66.20	59.08	62.19	66.19	62.09	7322	yes, cond 5	1971	Feather Water District	280 Wilkie Avenue, Yuba City, CA 95991	yes	yes	
146	2.47	A	4	409+66	2,121,086.77	6,677,660.88	38°59'08.25"N	121°35'30.876"W	Feather Water District South Pump Station 1-18" irrigation discharge pipes. The improvements include a reservoir at the landside toe of levee and a inlet channel from river to waterside toe.	Cutoff Wall	Pipeline meets the elevation requirement over 200 year WSEL. The type of pipe may or may not meet Title 23. Need to pothole to verify.	IR(P)	0.8	64.10	65.60	66.40	59.08	62.18	66.18	62.08	5313	yes, cond 5	1966	Feather Water District	280 Wilkie Avenue, Yuba City, CA 95991	yes	yes	
147	2.47	A	4	409+62	2,121,082.47	6,677,660.77	38°59'08.789"N	121°35'30.876"W	Feather Water District South Pump Station 1-18" irrigation discharge pipes. The improvements include a reservoir at the landside toe of levee and a inlet channel from river to waterside toe.	Cutoff Wall	Pipeline meets the elevation requirement over 200 year WSEL. The type of pipe may or may not meet Title 23. Need to pothole to verify.	IR(P)	0.9	64.05	65.55	66.40	59.08	62.18	66.18	62.08	4228	yes, cond 5	1963	Feather Water District	280 Wilkie Avenue, Yuba City, CA 95991	yes	yes	
148	2.47	A	4	409+58	2,121,078.48	6,677,660.82	38°59'08.748"N	121°35'30.872"W	Feather Water District South Pump Station 1-18" irrigation discharge pipes. The improvements include a reservoir at the landside toe of levee and a inlet channel from river to waterside toe.	Cutoff Wall	Pipeline meets the elevation requirement over 200 year WSEL. The type of pipe may or may not meet Title 23. Need to pothole to verify.	IR(P)	0.8	64.10	65.60	66.40	59.08	62.18	66.18	62.08	4228	yes, cond 5	1963	Feather Water District	280 Wilkie Avenue, Yuba City, CA 95991	yes	yes	
149	2.41	A	4	409+55	2,121,075.08	6,677,660.80	38°59'08.668"N	121°35'30.885"W	Taylor Brothers Farm Irrigation Pump Station. A inclined pump located on the waterside slope of levee with 14 Inch Pipeline through levee	Cutoff Wall	Pipeline meets the elevation requirement over 200 year WSEL. The type of pipe may or may not meet Title 23. Need to pothole to verify.	IR(P)	1.4	63.83	65.00	66.40	59.07	62.17	66.17	62.08	4568A	yes, cond 5	1965	George E. Taylor	182 Wilkie Avenue, Yuba City, CA 95991	yes	yes	
150	2.47	A	4	409+50	2,121,069.88	6,677,660.77	38°59'08.721"N	121°35'30.870"W	Feather Water District South Pump Station 1-18" irrigation discharge pipes. The improvements include a reservoir at the landside toe of levee and a inlet channel from river to waterside toe.	Cutoff Wall	Pipeline meets the elevation requirement over 200 year WSEL. The type of pipe may or may not meet Title 23. Need to pothole to verify.	IR(P)	1.7	63.25	64.75	66.40	59.08	62.18	66.18	62.08	4228	yes, cond 5	1963	Feather Water District	182 Wilkie Avenue, Yuba City, CA 95991	yes	yes	
151	2.40	A	4	407+72	2,120,892.86	6,677,656.42	38°59'08.668"N	121°35'30.885"W	Abandoned pipe and structure at landside toe, pipe is 8 inch, but the headwall appears that it is ran through a larger older pipe possibly and old drainage pie	Cutoff Wall	Not sure if the abandonment meets title 23 requirements. Pipe may need to be properly abandoned or completely removed.	IR(A)	21.8	43.87	44.70	66.50	59.00	62.09	66.08	62.01					yes	yes		
152	2.21	A	4	396+32	2,119,752.28	6,677,651.86	38°58'55.692"N	121°35'31.050"W	8 inch pipe crossing. Headwall at land toe, art on land side of crown, and cut pipe near water side toe	Cutoff Wall	Not sure if the pipeline meets the elevation requirement over 200 year WSEL. The type of pipe may or may not meet Title 23. Need to pothole to verify.	IR(A)	4.1	61.74	62.40	66.50	58.59	61.63	65.52	61.54	pre-1955		part of orig O&M 1955		yes	yes		
153	1.84	A	4	386+63	2,118,786.69	6,677,704.40	38°58'46.170"N	121°35'30.504"W	Abandon 8 inch pipe crossing, stand pipe on land toe has been destroyed.	Cutoff Wall	Not sure if the abandonment meets title 23 requirements. Pipe may need to be properly abandoned or completely removed. Could not find nine	IR(A)	4.6			66.10	58.29	61.29	65.12	61.07	pre-1955		part of orig O&M 1955		no	no		
154	1.51	A	4	365+00	2,116,703.78	6,678,265.36	38°58'25.482"N	121°35'23.46"W	Abandon 8 inch pipe crossing, stand pipe on land toe has been removed.	Cutoff Wall	Not sure if the abandonment meets title 23 requirements. Pipe may need to be properly abandoned or completely removed. Could not find nine	IR(A)	4.8			65.10	57.71	60.66	64.40	59.97	pre-1955		part of orig O&M 1955		yes	yes		
155	1.00	A	4	342+27	2,114,521.83	6,678,856.40	38°57'22.128"N	121°35'08.814"W	Irrigation Production Well (located xx foot west of levee toe)	Cutoff Wall		IR(W)													no	yes		
	0.39	A	3/4	300+66					Reach 3/4 Transition																			
156	0.34	A	3	298+89	2,110,314.83	6,679,535.86	38°57'22.204"N	121°35'07.763"W	Removal of a portion and filling with concrete a portion of an abandoned 36 inch steel pipe through the right bank levee of the Feather River	Cutoff Wall		IR(G)									pre-1955 (install) and 4667	yes, cond 5	part of orig O&M 1955 and 1964	Levee District No. 1	243 Second Street, Yuba City, CA 95991	yes	yes	
157	0.36	A	3	298+67	2,110,292.12	6,679,458.78	38°57'22.218"N	121°35'08.814"W	Garden Highway Mutual Water - Irrigation Production Well (located 30 foot west of levee toe)	Cutoff Wall		IR(W)											2009	Garden Highway Mutual Water Company	12755 Garden Highway, Yuba City, CA 95991	yes	yes	
158	0.35	A	3	298+38	2,110,262.81	6,679,553.51	38°57'21.757"N	121°35'07.763"W	Garden Highway Mutual Water 54 inch Irrigation Pump Station Discharge Pipeline through Levee. The improvements include a inlet channel from the river to the 200 feet from waterside toe of levee and irrigation canal at the toe of the landside of levee.	Cutoff Wall	The pipeline does not meet title 23 requirements and will need a positive shut-off structure installed and gate valve at pump. Pumping up and over levee does not appear to be feasible.	IR(G)	25.1	38.00		63.90	55.88	58.57	61.86	57.78	pre-1955		part of orig O&M 1955	Garden Highway Mutual Water Company	12755 Garden Highway, Yuba City, CA 95991	yes	yes	
	0.00	A	3	280+90					State Maintenance Area 3 / Levee District No. 1 Levees Transition																			
1	4.05	A	3	219+00	Not Verified		Not Verified		12 inch pipe. Appears to be removed by pipe laying on ground adjacent to location	Cutoff Wall	Not sure if the abandonment meets title 23 requirements or elevation requirements. Could not find nine	IR(A)		59.2 (USED)			55.23	57.92	61.19	56.15	pre-1955		part of orig O&M 1955			no	no	
	4.01	A	2/3	218+66					Reach 2/3 Transition																			
2	3.84	A	2	209+89	2,101,737.07	6,678,031.40	38°55'57.543"N	121°35'27.300"W	Electrical service crossing for pump	181+00 to 218+66 Cutoff Wall and 100 foot Seepage Berm		EL	OH			62.29									yes	yes		
3	3.83	A	2	209+23	2,101,673.35	6,678,014.21	38°55'56.918"N	121°35'27.543"W	Private Irrigation Pump Station. 14 inch welded steel pipe crossing	181+00 to 218+66 Cutoff Wall and 100 foot Seepage Berm	Pipeline meets the elevation requirement over 200 year WSEL. The type of pipe may or may not meet Title 23. Need to pothole to verify.	IR(P)	3.0	59.37 est	60.20	62.90	55.17	57.86	61.13	56.00	1730	yes, cond 3	1952	Robert Crandall	Bogue Road, Route 1, Yuba City, CA 95991	yes	yes	
4	3.70 - 4.25	A	2	217+00					National Audubon Society. To plant approximately 4,000 native trees on 40 acres within the right bank overflow area of the Feather River	181+00 to 218+66 Cutoff Wall and 100 foot Seepage Berm		Trees									17012	yes, cond 17	2000	National Audubon Society	555 Audubon Place, Sacramento, CA 95825			
5	2.9- 5.19	A	2	217+00					National Audubon Society. To plant approximately 300 to 500 native trees (primarily cottonwoods) on the right bank overflow area of the Feather River	181+00 to 218+66 Cutoff Wall and 100 foot Seepage Berm		Trees									16817	yes, cond 21	1998	National Audubon Society	555 Audubon Place, Sacramento, CA 95825			
6	3.18	A	2	174+91	Not Verified		Not Verified		12 inch pipe	129+66 to 181+00 Stability Berm and 100 foot Seepage Berm	Not sure if the abandonment meets title 23 requirements or elevation requirements. Could not find nine		4.5			54.73	57.40	60.61	55.57						no	no		
	0.00	A	1/2	129+66					Reach 1/2 Transition																			
7	2.19- 3.00	A	1	125+00					To level 60 hectares of leered land westward of the right bank of the Feather River upstream of the SR 99 Bridge	Cutoff Wall		Struc										8638, 13343, 12590	yes, cond. 13	1982	Nevis Land Co. now owned by DFG	1416 9th Street, Sacramento, CA 95814	yes	yes
8	2.19	A	1	124+32	2,094,124.90	6,679,433.55	38°54'42.235"N	121°35'09.990"W	Hamatani Ranch - Sacramento Avenue Irrigation Pump Station and pipeline crossing	Cutoff Wall	The pipeline does not meet title 23 requirements and will need a positive shut-off structure installed and gate valve at pump. Pumping up and over levee does not appear to be feasible. Should be part of 30 percent design.	IR(P)		32.01		60.39	53.53	56.08	59.07	53.55	3284	yes, cond 4	1960	T.H. Richards now owned by Odysseus Farms PTN	P.O. Box H, Yuba City, CA 95992	yes	yes	
9	2.19	A	1	124+32	2,094,124.90	6,679,433.55	38°54'42.235"N	121°35'09.990"W	24 inch culvert pipe. Part of Sacramento Avenue Irrigation Pump Station	Cutoff Wall	The pipeline does not meet title 23 requirements and will need a positive shut-off structure installed and gate valve at pump. Pumping up and over levee does not appear to be feasible. Should be part of 30 percent design.	IR(P)	26.0	32.01		60.39	53.53	56.08	59.07	53.55	pre-1955		part of orig O&M 1955	T.H. Richards now owned by Odysseus Farms PTN	P.O. Box H, Yuba City, CA 95992	yes	yes	
10	2.10	A	1	124+21	2,094,115.32	6,679,426.80	38°54'42.141"N	121°35'10.076"W	12 kv overhead electrical crossing	Cutoff Wall		EL	OH			60.31									Pacific Gas & Electric	One Tower, Spear Tower, San Francisco, CA 94105	yes	yes
11	1.85	A	1	107+21	2,092,674.99	6,678,527.08	38°54'27.944"N	121°35'21.542"W	Remaining abutment for old Nicolaus Bridge	Cutoff Wall		Bridge				60.80									County of Sutter	1160 Civic Center Blvd, Yuba City, CA	yes	yes

	Levee Mile	SBFCA Phase	SBFCA Reach	SBFCA STA	Location (NAD 83)		Location (WGS 84)		Encroachment	Proposed Levee Improvement	Required Improvement Work	Type	cover	Elevations (NGVD 1988)			Water Surface Elevation (NGVD 1988)				CVFPB Permit Information			Owner Information		verified	Picture Taken
					Northing	Easting	Latitude	Longitude						Invert of Pipe	Top of Pipe	Top of Levee	100 Yr	200 Yr	500 Yr	DWR 1957	Permit No.	Require Permittee to Relocate	Year	Name	Address		
12		A	1	105+00			Not Verified		To construct three 1 acre ponds on the right bank overflow area of the feather River	Cutoff Wall		Struc									16738	no	1997	Department of Fish and Game	1701 Nimbus Road, Suite A, Rancho Cordova, CA 95670		
13		A	1	99+00					Hamatani Ranch Irrigation Canal - Station 99+00 to 107+00	Cutoff Wall		IR(G)												T.H. Richards now owned by Odysseus Farms PTN	P.O. Box H, Yuba City, CA 95992	no	no
14	1.60	A	1	98+00	2,092,080.61	6,677,794.38	38°54'22.101"N	121°35'30.845"W	State Route 99 Crossing of Levee -To install two removable barriers on the roadway shoulders at the SR 99 crossing of the right bank of levee crown of the Feather River.	Cutoff Wall		Bridge				62.03					14286	no	1986	Caltrans	703 B Street, Marysville, CA 95901	yes	yes
15	1.60	A	1	97+61	2,092,071.07	6,677,788.96	38°54'22.007"N	121°35'30.914"W	U.S. Communication cable	Cutoff Wall	Not sure if the conduit meets the elevation requirement over 200 year WSEL. The type of conduit may or may not meet Title 23. Need to <del>notehole to verify</del>	TL	3.0			61.04					3511					yes	yes
16	1.2-2.7	A	1	74+00			Not Verified		To install two sections of 12KV three phase power lines, approximately 2.3 kilometers in combined length, to provide service for irrigation pumps. The project is located in the overflow area at the right bank levee of the Feather River running north and south of the Garden Highway crossing and over the Nelson Slough <del>leaves</del>	Cutoff Wall		EL	OH								13409	yes, cond 13	1982	Pacific Gas & Electric	5555 Florin-Perkins Road, Sacramento, CA 95826	no	no
17	1.20	A	1	73+39	2,090,564.35	6,675,895.46	38°54'07.197"N	121°35'54.953"W	12 kv overhead electrical crossing	Cutoff Wall		EL	OH			56.04					2483	yes, cond 4	1957	Pacific Gas & Electric	One Tower, Spear Tower, San Francisco, CA 94105	yes	yes
18	1.20	A	1	72+27	2,090,511.86	6,675,799.08	38°54'06.682"N	121°35'56.176"W	Transmission Line Crossing - East Line	Cutoff Wall		EL	OH			55.83							2008	WPA	114 Parkshore Drive, Folsom, CA 95630-4710	yes	yes
19	1.20	A	1	71+89	2,090,504.83	6,675,762.31	38°54'06.614"N	121°35'56.641"W	Transmission Line Crossing - West Line	Cutoff Wall		EL	OH			55.64							2009	WPA	114 Parkshore Drive, Folsom, CA 95630-4710	yes	yes
20	0.80	A	1	52+25	2,091,015.74	6,673,876.41	38°54'11.746"N	121°36'20.470"W	Hamatani Ranch Storm Drainage Pump Station. The pump discharge is a 20 inch pipe and pump is Bryon Jackson 17H0H with 50 HP electrical motor.	Cutoff Wall	The pipeline is appears to meet the elevation requirement over 200 year WSEL based on the record information and type of pipe may or may not meet Title 23. Should be part of 30 percent design.	SD(P)	3.0	49.35 rd	51.02 rd	56.34	50.43	52.76	55.28	48.84	13624	yes, cond. 13	1983	Danna & Danna Inc. now owned by Odysseus Farms PTN	P.O. Box H, Yuba City, CA 95992	yes	yes
21	0.80	A	1	52+25	2,091,015.74	6,673,876.41	38°54'11.746"N	121°36'20.470"W	2-18 inch steel pipes with concrete "U" headwall at waterside toe.	Cutoff Wall	Not sure if the abandonment meets title 23 requirements. Pipe may need to be properly abandoned or completely removed. Could not find <del>pipe</del>	SD(G)	32.0		24.0 (USED)						pre-1955		part of orig O&M 1955	Danna & Danna Inc. now owned by Odysseus Farms PTN	P.O. Box H, Yuba City, CA 95992	yes	yes
22	0.00	A	1	10+82	2,088,598.75	6,670,597.31	38°53'47.993"N	121°37'02.081"W	To install canal gates on two existing 48 inch CMP culverts under a spur levee on the right bank overflow area of the Feather River	Cutoff Wall		IR(G)	32.0			54.48					13506	yes, cond. 13	1982	Nevis Land Co. now owned by DFG	1416 9th Street, Sacramento, CA 95814	yes	yes
23	0.00	A	1	10+60					Hamatani Ranch Storm Drainage Ditch - Station 10+60 to 68+25	Cutoff Wall		IR(G)	32.0			54.48					13506		1982	Nevis Land Co. now owned by DFG	1416 9th Street, Sacramento, CA 95814	yes	yes
	0.00	A	1	10+00					Begin Reach 1																		

Part of TO 6 Contract

Part of TO 5 Contract

Part of TO 4 Contract

Encroachment but not part of MHM work - Redline HDR or WR Plans

- SD(G)

Storm Water - Gravity
- SD(P)

Storm Water - Pressure
- WW(G)

Waste Water - Gravity
- WW(P)

Waste Water - Pressure
- IR(G)

Irrigation Line - Gravity
- IR(P)

Irrigation Line - Pressure
- RW (P)

Raw Water - Pressure
- W(P)

Water Line - Pressure
- RD

Roadway Crossing
- GL

Gas Line
- TL

Telephone
- EL

Electric Line
- SEEP

Seepage

**SUTTER BUTTE FLOOD CONTROL AGENCY  
FEATHER RIVER WEST LEVEE PROJECT  
PG&E ENCROACHMENTS COORDINATION LIST**

**PROJECT B (STATION 510+37 TO 845+00)  
LEVEE CONSTRUCTION TO BEGIN IN 2014**

<b>PROJECT NUMBER</b>	<b>STATION</b>	<b>DESCRIPTION</b>	<b>WORK REQUIRED</b>
B-1	592+50	Overhead power line crossing the levee.	Temporary removal, de-energizing, raising, or relocation of the power line to support levee construction required.
B-2	622+79	Service pole for irrigation well located at levee toe.	Service pole shall be removed.
B-3	638+20	Service pole for irrigation well located near levee toe.	Service pole shall be removed.
B-4	649+11	Utility pole located at landside levee toe. Overhead power line crossing the levee.	Utility pole shall be relocated 30' from landside levee toe. Temporary removal, de-energizing, raising, or relocation of the power line to support levee construction required.
B-5	655+50	Service pole for irrigation well located near levee toe.	Service pole shall be removed.
B-6	655+65 to 664+00	Utility poles running parallel to levee near landside toe.	Utility poles shall be relocated 30' from levee toe.
B-7	669+20	Service pole for irrigation well located at levee toe.	Service pole shall be removed.
B-8	688+90 to 689+40	Utility poles located at the landside levee toe. Overhead power line crossing the levee.	Utility poles shall be relocated 30' from landside levee toe. Temporary removal, de-energizing, raising, or relocation of the power line to support levee construction required. Utility poles on waterside of levee are not required to be relocated by the CVFPB.
B-9	749+75 to 762+00	Utility poles running parallel to levee at landside toe.	Utility poles shall be relocated a minimum of 30' from levee toe. The Garden Highway is located at the levee toe. The utility poles shall be relocated to the west side of the Garden Highway.
B-10	750+10	Overhead power line crossing the levee.	Temporary removal, de-energizing, raising, or relocation of the power line to support levee construction required.
B-11	750+50	Transmission lines crossing the levee.	For information only. Transmission lines will not be disturbed during construction.

NOTE: The existing utilities shown are based on topographic surveys and review of existing encroachment permits provided for the FRWL Project. Additional utilities may exist that have not been identified by these sources. PG&E shall review the appropriate electrical and gas maps to determine if additional utilities are located within the project area.



**SUTTER BUTTE FLOOD CONTROL AGENCY  
FEATHER RIVER WEST LEVEE PROJECT  
PG&E ENCROACHMENTS COORDINATION LIST**

**PROJECT C1 (STATION 1080+00 TO 1623+86)  
LEVEE CONSTRUCTION TO BEGIN IN 2014**

<b>PROJECT NUMBER</b>	<b>STATION</b>	<b>DESCRIPTION</b>	<b>WORK REQUIRED</b>
C1-1	1080+00	8-inch gas main crossing levee at skewed angle.	Gas main shall be removed or relocated to allow for construction of the levee improvements. The gas mains shall be reconstructed in accordance with the DWR Title 23 requirements. Reconstructed gas main shall cross perpendicularly to the levee.
C1-2	1097+00	Not Used.	
C1-3	1107+82	Utility pole located in waterside slope near levee crown. Overhead power line crossing levee.	Utility pole shall be relocated 1' outside of the waterside construction limit line. Temporary removal, de-energizing, raising, or relocation of the power line to support levee construction required.
C1-4	1126+00 to 1131+30	Utility poles running parallel to levee near landside toe.	Utility poles shall be relocated a minimum of 30' from the levee toe. Live Oak Blvd is in close proximity to the levee. It may be necessary to relocate the utility poles to the west side of Live Oak Blvd.
C1-5	1135+40	16-inch gas main crossing the levee.	Gas main shall be removed or relocated to allow for construction of the levee improvements. The gas main shall be reconstructed in accordance with the DWR Title 23 requirements.
C1-6	1139+25	Utility pole with guy wire in landside levee slope near levee crown. Overhead power line crossing levee.	Utility pole shall be relocated 30' from landside levee toe. Temporary removal, de-energizing, raising, or relocation of the power line to support levee construction required.
C1-7	1152+40	Twin 110kV transmission tower at levee toe. Transmission lines crossing the levee.	For Information only. Transmission tower to remain in place. Transmission lines will not be disturbed during levee construction.
C1-8	1170+05	Utility pole located in landside slope near levee crown. Angle point in the overhead power line. Overhead power line crosses the levee and continues north parallel to the landside toe.	Utility pole shall be relocated 30' from landside levee toe. Temporary removal, de-energizing, raising, or relocation of the power line to support levee construction required.
C1-9	1174+35	Utility pole located near landside levee toe.	Utility pole shall be relocated 30' from landside levee toe.
C1-10	1179+05 to 1201+25	Utility poles running parallel to levee at landside toe.	Utility poles shall be relocated 30' from landside levee toe.

C1-11	1195+15	Overhead power line crossing levee.	Temporary removal, de-energizing, raising, or relocation of the power line to support levee construction required.
C1-12	1222+15	Utility pole located at landside levee toe. Angle point in overhead power line. Overhead power line turns and continues north crossing at a skewed angle to the levee.	Utility pole shall be relocated 30' from landside levee toe.
C1-13	1223+80 to 1227+60	Utility poles running parallel to levee at waterside toe.	Utility poles shall be relocated 1' outside of the waterside construction limit line.
C1-14	1225+90	Utility pole in landside slope at levee crown. Overhead power line crossing levee at skewed angle.	Utility pole shall be relocated 30' from landside levee toe.
C1-15	1266+80	Utility pole in landside slope near levee toe. Overhead power line crossing levee.	Utility pole shall be relocated 30' from landside levee toe. Temporary removal, de-energizing, raising, or relocation of the power line to support levee construction required.
C1-16	1293+66	Utility pole located at waterside levee toe. Overhead power line crossing levee.	Utility pole shall be located 1' outside of the waterside construction limit line. Temporary removal, de-energizing, raising, or relocation of the power line to support levee construction required.
C1-17	1307+80 to 1339+00	Utility poles running parallel to levee at waterside toe.	Utility poles shall be relocated 1' outside of the waterside construction limit line.
C1-18	1327+00	Overhead power line crossing levee.	Temporary removal, de-energizing, raising, or relocation of the power line to support levee construction required.
C1-19	1347+40	Overhead power line crossing levee.	Temporary removal, de-energizing, raising, or relocation of the power line to support levee construction required.
C1-20	1391+96	Overhead power line crossing levee.	Temporary removal, de-energizing, raising, or relocation of the power line to support levee construction required.
C1-21	1399+28	Overhead power line crossing levee.	Temporary removal, de-energizing, raising, or relocation of the power line to support levee construction required.
C1-22	1430+00	Substation, transformers, and utility poles located at the waterside slope. Overhead power lines crossing levee.	Substation, transformers, and utility poles shall be protected in place by the levee contractor. Temporary removal, de-energizing, raising, or relocation of the power line to support levee construction required.
C1-23	1460+00 to 1471+00	Underground utility line place within crown of levee per PG&E utility maps.	Underground utility shall be relocated a minimum of 30' from the landside levee toe. The top of the Sutter Butte Main Canal is located approximately 50' from the landside levee toe. Two residential structures are located near the landside levee toe, providing approximately 25' between the structure and top of the Sutter Butte Main Canal.
C1-24	1520+25	Utility pole located in landside slope near toe of levee. Overhead power line crossing levee.	Utility pole shall be relocated 30' from landside levee toe. Existing structure is located at the landside levee toe approximately 20' to 30' from the existing overhead power line alignment. Temporary removal, de-energizing, raising, or relocation of the power line to support levee construction required.
C1-25	1536+00	Utility pole located at landside levee toe. Overhead power line crossing levee.	Utility pole shall be relocated 30' from landside levee toe. Temporary removal, de-energizing, raising, or relocation of the power line to support levee construction required.

C1-26	1556+58	Overhead power line crossing levee.	Temporary removal, de-energizing, raising, or relocation of the power line to support levee construction required.
C1-27	1611+40	Two utility poles located at waterside levee toe. Overhead power line crossing levee.	Utility poles shall be located 1' outside of the waterside construction limit line. Residential structures are located near poles. Temporary removal, de-energizing, raising, or relocation of the power line to support levee construction required.

**PROJECT C2 (STATION 845+00 TO 913+00)  
LEVEE CONSTRUCTION TO BEGIN IN 2013**

<b>PROJECT NUMBER</b>	<b>STATION</b>	<b>DESCRIPTION</b>	<b>WORK REQUIRED</b>
C2-1	881+50	Utility pole at landside toe of levee next to LD1 relief well pump station.	No work required. Utility pole to remain in place.
C2-2	894+22	12 kV underground cable crossing through levee.	The 12kV underground cable shall be removed to allow for construction of the levee improvements. The 12kV cable shall be replaced after levee construction in accordance with the DWR Title 23 requirements.
C2-3	894+22	Utility pole near landside levee toe.	Utility pole shall be relocated 1' outside of the landside construction limit line.
C2-4	904+50 to 912+94	Gas main running parallel to the levee within 20' of the landside toe.	Gas main to remain in place. Gas main to be analyzed to determine if construction loads will damage pipe.
C2-5	912+94	Gas transmission station located approximately 40' from landside levee toe.	No work required. Gas transmission station to remain in place. Contractor to protect station in place.

**PROJECT C2 (STATION 913+00 TO 1080+00)  
LEVEE CONSTRUCTION TO BEGIN IN 2014**

<b>PROJECT NUMBER</b>	<b>STATION</b>	<b>DESCRIPTION</b>	<b>WORK REQUIRED</b>
C2-6	913+20	Two 12-inch gas lines crossing levee.	Gas mains shall be removed or relocated to allow for construction of the levee improvements. The gas mains shall be reconstructed in accordance with the DWR Title 23 requirements.
C2-7	930+00 to 952+00	Gas main running parallel to the levee at the landside toe.	Gas main to remain in place. Gas main to be analyzed to determine if construction loads will damage pipe.
C2-8	952+10	Not used.	



C2-9	959+00 to 972+00	Utility poles running parallel to levee near landside toe.	Utility poles shall be relocated a minimum of 30' from the levee toe. Second Street is adjacent to the levee toe. The utility poles shall be relocated to the west side of Second Street.
C2-10	971+70	Utility pole in waterside levee slope. Overhead power line crossing levee.	Utility pole shall be relocated 1' outside of the waterside construction limit line. Overhead power line crossing can remain in place.
C2-11	1003+72	Utility pole in landside levee slope near crown of levee. A streetlight is attached to the utility pole.	No work required. Utility pole to remain in place.
C2-12	1006+07	Utility pole in waterside levee slope near crown of levee. A streetlight is attached to the utility pole.	No work required. Utility pole to remain in place.
C2-13	1006+93	Utility pole and anchor within landside levee slope near crown of levee. Overhead power line crossing the levee.	No work required. Utility pole to remain in place. Temporary removal, de-energizing, raising, or relocation of the power line to support levee construction required.
C2-14	1008+00 To 1025+00	Utility poles and overhead power line running parallel to LS levee toe.	Utility poles shall be relocated a minimum of 1' outside of the construction limit line. A residential structure is in close proximity to the levee at Station 1012+00.
C2-15	1008+75	Utility pole located in waterside levee slope. Overhead power lines crossing levee.	Utility pole shall be located a minimum of 1' outside of the waterside construction limit line. Special consideration of this location is required due to the close proximity of the levee to the river channel.
C2-16	1019+80 to 1022+10	Utility poles in waterside slope near levee crown. Streetlights are attached to the utility poles.	No work required. Utility poles to remain in place.
C2-17	1025+00	Utility pole with guy wires in waterside levee slope and near landside levee toe. Overhead power line crossing levee.	Utility pole near landside toe shall be relocated 30' from the . Temporary removal, de-energizing, raising, or relocation of the power line to support levee construction required.
C2-18	1028+09	Utility pole in waterside slope near levee crown. Streetlight is attached to the utility pole.	No work required. Utility pole to remain in place.
C2-19	1042+50 to 1080+00	Gas main running parallel to the levee at the landside toe.	Gas main to remain in place. Gas main to be analyzed to determine if construction loads will damage pipe.
C2-20	1073+41	12-inch gas main crossing the levee.	The gas main shall be reconstructed to meet current DWR Title 23 requirements.

NOTE: The existing utilities shown are based on topographic surveys and review of existing encroachment permits provided for the FRWL Project. Additional utilities may exist that have not been identified by these sources. PG&E shall review the appropriate electrical and gas maps to determine if additional utilities are located within the project area.

**SUTTER BUTTE FLOOD CONTROL AGENCY  
FEATHER RIVER WEST LEVEE PROJECT  
ENCROACHMENTS COORDINATION LIST - PROJECT D (STATION 1623+86 TO 2368+00)**

**PROJECT D1 (STATION 2290+00 TO 2368+00)  
LEVEE CONSTRUCTION TO BEGIN IN 2014**

<b>PROJECT NUMBER</b>	<b>STATION</b>	<b>DESCRIPTION</b>	<b>WORK REQUIRED</b>
D1-1	2335+70 to 2351+70	Utility poles running parallel to levee within landside slope.	Utility poles shall be relocated 30' from the toe of proposed seepage berm.
D1-2	2353+90	Utility pole located at the waterside levee toe.	Utility pole shall be relocated 1' outside of the waterside construction limit line.
D1-3	2360+15 to 2367+90	Utility poles running parallel to levee at the waterside levee toe or within the levee prism.	Utility poles shall be relocated 1' outside of the waterside construction limit line.

**PROJECT D2 (STATION 1813+33 TO 2290+00)  
LEVEE CONSTRUCTION TO BEGIN IN 2014**

<b>PROJECT NUMBER</b>	<b>STATION</b>	<b>DESCRIPTION</b>	<b>ma</b>
D2-1	1887+10	Overhead power line crossing levee.	Temporary removal, de-energizing, raising, or relocation of the power line to support levee construction required.
D2-2	1888+60 to 1895+10	Utility poles running parallel to the levee at the landside toe.	Utility poles shall be relocated 30' from the landside levee toe. Overhead power lines continue parallel to the levee from Station 1895+10 to 1906+60. Poles shall remain in place between Station 1898+20 to 1906+60. A structure is located at Station 1897+00, between the pole to be relocated at Station 1895+10 and the pole to remain at Station 1898+20.
D2-3	1903+96	Guy wire crossing over levee.	Guy wire shall be removed during levee construction.
D2-4	1906+60	Overhead power lines crossing levee.	Temporary removal, de-energizing, raising, or relocation of the power line to support levee construction required.
D2-5	1947+33	Utility pole at waterside levee toe. Underground electrical crossing through levee.	Utility pole shall be relocated 1' outside of the waterside construction limit line. The underground electrical shall be removed and disposed. Unknown if this service is still required.

D2-6	1957+00	Utility pole located at the waterside levee toe. Overhead power line crossing the levee.	Utility pole shall be relocated 1' outside of the waterside construction limit line. Overhead power line shall be lowered during levee
D2-7	1957+10	Utility pole located in the levee crown.	Utility pole shall be relocated 30' from the landside levee toe. Facilities served by utility pole are being removed.
D2-8	2006+10 to 2006+50	Utility poles located at landside levee toe.	Utility poles shall be relocated 30' from the landside levee toe. Utility poles serve an irrigation well that will be relocated.
D2-9	2037+15	Overhead power line crossing levee.	Temporary removal, de-energizing, raising, or relocation of the power line to support levee construction required.
D2-10	2092+20	Overhead power line crossing levee.	Temporary removal, de-energizing, raising, or relocation of the power line to support levee construction required.
D2-11	2138+00	Utility pole located at the landside levee toe. Overhead power line crosses levee to utility pole located at Station 2142+00.	Utility pole shall be relocated 30' from the landside levee toe. Temporary removal, de-energizing, raising, or relocation of the power line to support levee construction required.
D2-12	2142+00	Utility pole located at waterside levee toe.	Utility pole shall be relocated 1' outside of the waterside construction limit line.
D2-13	2178+20 to 2185+50	Utility pole at Station 2178+20 located at the waterside levee toe. Overhead power line crosses levee to utility poles located at the landside levee toe. Power lines continue parallel to the levee.	Utility poles on the waterside of the levee shall be relocated 1' outside of the waterside construction limit line. Utility poles on the landside of the levee shall be relocated 30' from the landside levee toe. Existing structures located at the landside levee toe starting at Station 2184+50 conflict with utility pole relocations on the landside of the levee.
	2209+00 to 2214+45	Utility poles located at landside levee toe.	Utility pole shall be relocated 30' from the landside levee toe. Temporary removal, de-energizing, raising, or relocation of the power line to support levee construction required.
D2-14	2216+70	Utility pole located in the waterside slope at the levee crown. Overhead power line crossing the levee.	Utility pole shall be relocated 1' outside of the waterside construction limit line. Temporary removal, de-energizing, raising, or relocation of the power line to support levee construction required.
D2-15	2249+00	Utility pole located at the landside levee toe. Overhead power line crossing the levee.	Utility pole shall be relocated 30' from the landside levee toe. Temporary removal, de-energizing, raising, or relocation of the power line to support levee construction required.
D2-16	2264+70 to 2268+45	Utility poles running parallel to the levee at the landside toe. Overhead power line crosses levee at Station 2265+50 to utility pole located on waterside of the levee.	Utility poles on landside of the levee shall be relocated 30' from the landside levee toe. Temporary removal, de-energizing, raising, or relocation of the power line to support levee construction required.
D2-17	2282+80	Utility pole located near the waterside levee toe adjacent to a structure. Overhead power line crossing the levee.	Utility pole shall be relocated 1' outside of the waterside construction limit line. Temporary removal, de-energizing, raising, or relocation of the power line to support levee construction required.
D2-18	2286+00 to 2289+60	Utility poles running parallel to the levee at the landside toe.	Utility poles shall be relocated 30' from the landside levee toe.

**PROJECT D3 (STATION 1623+86 TO 1813+33)**  
**LEEVE CONSTRUCTION TO BEGIN IN 2014**

<b>PROJECT NUMBER</b>	<b>STATION</b>	<b>DESCRIPTION</b>	<b>WORK REQUIRED</b>
D3-1	1635+50 to 1638+70	Utility poles running parallel to the levee at the waterside levee toe. Overhead power line crossing the levee at Station 1638+70.	Utility poles shall be relocated 1' outside of the waterside construction limit line. Temporary removal, de-energizing, raising, or relocation of the power line to support levee construction required.
D3-2	1651+80	Utility pole located in the waterside levee slope. Overhead power line crosses the levee at Station 1653+15.	Utility pole shall be relocated 1' outside of the waterside construction limit line. Temporary removal, de-energizing, raising, or relocation of the power line to support levee construction required.
D3-3	1654+20	Utility pole located at the landside levee toe.	Utility pole shall be relocated 30' from the landside levee toe.
D3-4	1665+30 to 1674+50	Utility poles running parallel to the levee at the landside levee toe. Overhead power line crossing the levee at Station 1665+30.	Utility poles shall be relocated 30' from the landside levee toe. Temporary removal, de-energizing, raising, or relocation of the power line to support levee construction required.
D3-5	1675+96	Utility pole located in the waterside levee slope. Overhead power line crosses the levee.	Utility pole shall be relocated 1' outside of the waterside construction limit line. Temporary removal, de-energizing, raising, or relocation of the power line to support levee construction required.
D3-6	1697+95	Utility pole located at the waterside levee toe. Overhead power line crossing the levee.	Utility pole shall be relocated 1' outside of the waterside construction limit line. Temporary removal, de-energizing, raising, or relocation of the power line to support levee construction required.
NEW	1722+50	Utility crosses at 1724+55 and 1728+50	Move utilities from waterside to landside to eliminate 1724+55 crossing.
D3-7	1724+90 to 1731+50	Utility poles running parallel to the levee located in the waterside slope or at the waterside levee toe. Overhead power line crossing the levee at Station 1728+30.	Utility poles shall be relocated 1' outside of the waterside construction limit line. Structures located near the waterside levee toe may conflict with the relocation of the utility poles. Temporary removal, de-energizing, raising, or relocation of the power line to support levee construction required.
NEW	1748+35	Utility pole located at the landside levee toe.	Utility pole shall be relocated 1' outside of the waterside construction limit line. Temporary removal, de-energizing, raising, or relocation of the power line to support levee construction required.
D3-8	1767+45	Utility pole located in landside slope near levee crown. Overhead power lines crossing the levee.	Utility pole shall be relocated 30' from the landside levee toe. Temporary removal, de-energizing, raising, or relocation of the power line to support levee construction required.
D3-9	1782+50	Utility pole located at landside levee toe.	Utility pole shall be relocated 30' from the landside levee toe.

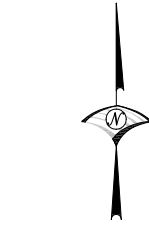
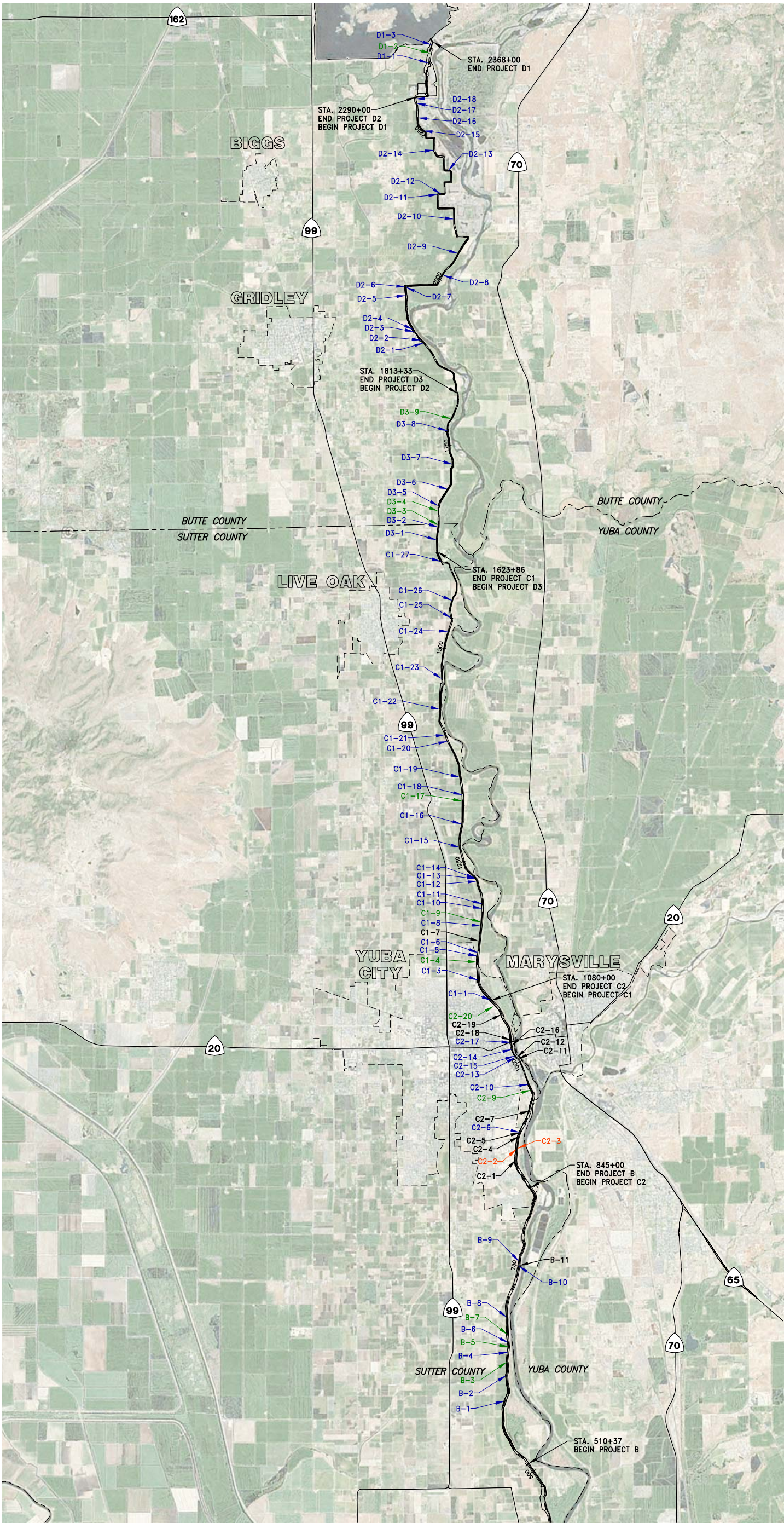
NOTE: The existing utilities shown are based on topographic surveys and review of existing encroachment permits provided for the FRWL Project. Additional utilities may exist that have not been identified by these sources. PG&E shall review the appropriate electrical and gas maps to determine if additional utilities are located within the project area.



# FEATHER RIVER WEST LEVEE

SUTTER BUTTE FLOOD CONTROL AGENCY

APRIL, 2013



6000' 3000' 0 6000'  
SCALE: 1" = 6000'

### LEGEND

- X#-# PG&E UTILITY TO BE RELOCATED PRIOR TO 2013 CONSTRUCTION
- X#-# PG&E UTILITY TO BE RELOCATED PRIOR TO 2014 CONSTRUCTION
- X#-# PG&E UTILITY TO BE RELOCATED BUT NOT IN CONFLICT WITH LEVEE CONSTRUCTION
- X#-# ITEM LISTED FOR INFORMATION ONLY





Appendix H

**Public Health and Hazards:  
EDR Data Map Environmental Atlas**

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**ENVIRONMENTAL SITE ASSESSMENT  
SUTTER BASIN FEASIBILITY STUDY  
SUTTER AND BUTTE COUNTIES, CALIFORNIA**

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## **1.0 SUMMARY**

This report presents the results of an Environmental Site Assessment (ESA) performed during June/July of 2009 by the Environmental Design Section (EDS) of the U. S. Army Corps of Engineers (USACE), Sacramento District. This ESA identified numerous sources of possible contamination due to Hazardous, Toxic, or Radioactive Waste (HTRW) during records research and site investigation.

Data research showed 85 sources of potential contamination within 1/4 mile of the project boundaries. The breakdown of these sources is as follows:

- 51 registered underground storage tanks (UST's) and 3 aboveground storage tanks (AST's).
- 5 sources are listed as small and large generators of EPA regulated hazardous waste.
- 5 sites that had leaking UST's, 2 which have/had affected public drinking water
- 6 known or potential hazardous substance sites under investigation or cleanup
- 2 Waste discharge systems
- 2 Landfills
- 12 suspected drug labs
- 1 pesticide-producing facility

For the majority of the sources, no records were found to indicate that these potential sources have actually caused major contamination, although there are still on-going investigations. For the purpose of this investigation, there are several areas of concern in the event of flooding. Most involve registered UST's, hazardous waste generators, minor tank leaks, UST removal and remediation, and accidental releases.

This Environmental Site Assessment (ESA) did not confirm any known contamination due to Hazardous, Toxic, or Radioactive Waste (HTRW) within the construction zone during records research and field survey.

No field investigation or records review found any evidence to indicate that any other potential sources of contamination would interfere with any planned construction of the levees.

## **2.0 INTRODUCTION**

### **2.1 Scope of Report**

The purpose of this ESA is to identify recognized environmental conditions, including the presence or likely presence of any hazardous substances or petroleum products under conditions that indicate an existing release, a past release, or the material threat of a release into structures, the ground, groundwater or surface waters of the property. This report addresses HTRW within the study area which may affect construction for levee repairs on the Sutter Bypass within the Sutter Basin project. This report was prepared in accordance with ASTM E-1527-94, ER 1165-2-132; Hazardous, Toxic, and Radioactive Waste (HTRW) Guidance for Civil Works Projects; and EC 1105-2-206, Project Modifications for Improvement of the Environment. A data search and an on-site investigation were conducted in order to compile information for this ESA. This assessment did not include sampling or analysis of soil or groundwater.

## **3.0 PROJECT DESCRIPTION**

The focus of this feasibility study is to recommend a plan for flood damage reduction, ecosystem restoration, and recreation in accordance with the Water Resource Council's Principles and Guidelines, and Corps civil works planning policies. The purposes of this PMP revision are to redirect the study to focus on the Sutter Bypass - Feather River sub-basin, to apply the Corps' current levee standards, and to incorporate ecosystem restoration and recreation into the study. Results of the State's geotechnical analysis will be used to define without-project conditions,

including levees that might be at risk of failure.

The study scope will refocus on providing flood damage reduction to the urban areas of Yuba City, Live Oak, Gridley and Biggs in the Sutter Bypass - Feather River sub-basin and developing a flood warning system for the outlying areas of the sub-basin. Other study objectives will include ecosystem restoration and recreation.

Several miles of levees along the Feather River upstream of Yuba City protect close to 30,000 residential homes, 1500 commercial structures, 620 farm houses and buildings, and 120 semipublic structures from devastating floods. Much of these levees are inadequate for the desired protection of the cities at risk. A flood damage reduction project will enhance the public health, safety and welfare by eliminating damages to single family residences, interruptions to interstate commerce and reducing the impacts to agriculture thereby promoting a safe environment for the residents of Sutter County and the economy throughout California and the surrounding areas.

For this report the project has been divided into seven (7) separate sites for ease of investigating and reporting. For the purpose of this ESA a corridor data search and site investigations were conducted. The corridor will consist of the site description plus 1/4 mile on each side of the site, in accordance to ASTM-E 1527-94. Each Site project description is as follows:

**Cherokee Canal** - This site starts at the inter section of the Cherokee canal and the Clousa highway. The canal runs northeast to the Richvale Highway, where it turns east until it reaches State Highway 99. The levee runs parallel to the Thermalito Afterbay approximately 3 miles south on Highway 99 until it turns east on Hamilton Road. Approximately 1.7 miles east Hamilton Road dead ends into Larkin Road, where the levee turns northeast and follows Thermalito Afterbay to where it intersecs the feather River. This section is approximately 19.7 miles long.

**Feather River North (Yuba)** - This site roughly follows the Feather River from the Thermolita Afterbay to approximately Metteer road or the Butte/Sutter County line. This section of the project covers about 13.5 miles of the levee.

**Feather River North (Sutter)** – This section starts at the Butte/Sutter county line of the Feather River and goes south along the river to approximately Pease Road. This section is approximately 9.8 miles long.

**Yuba City Levee** – This section of the levee project starts at Pease Road on the Feather River and goes south through the Yuba City to the confines of the Feather River and the Yuba River. From there it continues south, mostly following the Garden highway to Star Bend Road. This section is approximately 12.5 miles long.

**Feather River South** – Starting at Star Bend Road this levee section goes south on the Levee Road, which parallels Highway 99. The Levee Road will cross Highway 99 and continue to the Sutter Bypass, where this section ends. This section is approximately 9.3 miles long.

**Sutter Bypass** – This section of the project starts at the intersection of the Feather River Levee road and the Sutter Bypass Levee Road and goes north along the Sutter bypass for approximately 17.5 miles. This section ends at the intersection of the Sutter Bypass Levee Road and the Wadsworth Canal Levee Road.

**Wadsworth Canal** – This 4.5 mile section of the project starts at the intersection of the Sutter Bypass and Wadsworth Canal and goes northeast to end at Butte House road.

## **4.0 SITE DESCRIPTION**

### **4.1 Location**

Sutter Basin is located in the north-central part of California. Sutter County's boundaries include the Sacramento River to the west and the Feather River to the east. Its southern boundary is just downstream of the confluence of the Sacramento River with the Sutter Bypass. The Sutter Bypass passes through Sutter County from the northwest and acts as flood relief for the Sacramento River. The Sutter Bypass conveys flood waters from Butte Basin and additional flood waters from the Sacramento River through the Tisdale Bypass, which connects to the Sacramento River downstream from the town of Grimes. The study area will include the Sutter Bypass – Feather River sub-basin of the Sutter Basin, which extends into the south-central

portion of Butte County along the west side of the Feather River. See Appendix A for site map and legend.

#### **4.2 Site and Vicinity Characteristics**

The top of the levees are accessible by vehicle but are limited to public access by locked gates. The predominant use adjacent to the land side of levee is agricultural, while the river side is predominately recreational. Within the study area are several dwellings with their out structures. Most of these dwellings are associated with farming operations. The study area also includes several businesses and show up on several data bases, but appear to have no or little impact on the construction site.

#### **4.3 Descriptions of Improvements on the Site**

No improvements have been made to the actual levee in recent years, other than general maintenance and flood damage.

### **5.0 RECORDS REVIEW**

The following sources were used in researching the occurrence of HTRW within the study area. The following information was acquired during a records search and phone interviews.

#### **California Environmental Protection Agency**

California EPA has set up a web site, [www.swrch.ca.gov/~cw/phome/lusts](http://www.swrch.ca.gov/~cw/phome/lusts), for the most updated information. This same list was also duplicated in the data base search.

#### **State Water Resources Control Board**

The Division of Clean Water Programs, Tanks Unit, sent a list of leaking underground storage tanks (LUSTs) in the study area. This list was duplicated in the database search.

## California Department of Toxic Substances Control

A copy of the CalSites database for the study area was faxed, locating areas where hazardous substances have been released or where the potential for release exists. The database mainly covers spills. This same list was duplicated in the data base search. There was no evidence of any spills that would affect this project.

## Data Base Review

Environmental Data Resources (EDR) conducted a records research of the study area consisting of 69 federal, state and publicly available data bases. (See Attachment A for a list of the sources plus a definition and a summary of the information stored in each database).

## **6.0 SITE RECONNAISSANCE AND OBSERVATIONS**

In June and July of 2009, Bruce Van Etten from the Environmental Design Section (EDS) of the United States Army Corps of Engineers-Sacramento District (USACE) visited the study area several times. The objective of the site visit is to identify recognizable environmental concerns in connection with the property. Common environmental concerns that were looked for include the following: asbestos; construction and demolition debris; drums; landfill or solid waste disposal sites; pits, ponds or lagoons; wastewater; fill dirt, depressions, mounds, or any artificial structures; PCB containing transformers; and the presence or likely presence of any hazardous substance or petroleum products on the property under conditions that indicate an existing release, a past release, or a material threat of a release on the property or into the ground, groundwater, or surface water of the property.

### **6.1 Cherokee Canal**

Four (4) Underground Storage tanks (UST's) were mentioned in the data search and located during the site visit. All four of the UST's are outside of the construction zone for this project.



## **6.2 Feather River North (Yuba)**

This section of the levee project contained:

Four (4) UST's

One (1) landfill

Two reports on the HAZNET database.

- Four (4) Underground Storage tanks (UST's) were mentioned in the data search and located during the site visit. All four of the UST's are outside of the construction zone for this project.
- The landfill that is noted in the data base search is actually a burn dump and is located at the end of Walnut Ave., Biggs, California. The burn dump is owned by the California Department of Fish and Game and has been closed for several years. The burn dump presents no obstacle to this project.
- The HAZNET data base extracts copies of hazardous waste manifest received each year by the DTSC. The two sites that showed up on this data base show that hazardous waste was deposited properly.

## **6.3 Feather River North (Sutter)**

This section of the levee project contained:

Seven (7) UST's

One (1) waste discharge system

Three reports on the HAZNET database

One RCRA-SQG or small quantity generator.

- Seven (7) Underground Storage tanks (UST's) were mentioned in the data search and located during the site visit. All seven of the UST's are outside of the construction zone and present no threat to this project.
- The HAZNET data base extracts copies of hazardous waste manifest received each year by the DTSC. The two sites that showed up on this data base show that hazardous waste was deposited properly.

-Yuba City Prune Dehydrator showed up on the data base search a facility that treats and/or disposes of liquid or semisolid waste. This is an active facility that is considered a minor threat to water quality and has no reclamation requirements associated with it at this time.

- Andermac, Inc. showed up on the data search as a small quantity generator of hazardous waste. A small quantity generator is a facility that generates more than 100 and less than 1,000 kg of hazardous waste during any calendar month and accumulates less than 6,000 kg of hazardous waste at any time. There are no violations against this facility for generation or disposal of their waste.

#### **6.4 Yuba City Levee**

This section of the levee project is the most populated and contained:

Thirty three (33) UST's

Five (5) UST's on the Leaking Underground Storage Tank (LUST) list

One (1) landfill

Three (3) Aboveground Storage Tanks (AST's),

Four (4) RCRA-SQG or small quantity generators

One (1) pesticide producer

Three (3) sites on the Spills, Leaks, Investigation, and Cleanup (SLIC) database

Fifty eight (58) reports on the HAZNET database

Eleven (11) sites on the Clandestine Drug Labs (CDL) database

- Thirty three (33) Underground Storage Tanks (UST's) were mentioned in the data search and located during the site visit. All 33 of the UST's are outside of the construction zone and present no threat to this project.

- There are five UST's on the LUST list that are still open and undergoing cleanup. Two of the sites are in remediation and the other three are undergoing site assessments.

- There is one solid waste facility landfill within the project site but is closed and presents no problems to this project.

- Three (3) Aboveground Storage Tanks (AST's) were mentioned in the data search and located during the site visit. All 3 of the AST's are outside of the construction zone and present no threat to this project.
- There are four facilities that showed up on the data search as a small quantity generator of hazardous waste. A small quantity generator is a facility that generates more than 100 and less than 1,000 kg of hazardous waste during any calendar month and accumulates less than 6,000 kg of hazardous waste at any time. There are no violations against these facilities for generation or disposal of their waste.
- The data search shows the Sutter County Department of Agriculture as a registered pesticide producing establishment of insecticide, fungicide, and Rodenticide. There are no violations against this facility for generation or disposal of their waste and product
- The SLIC (Spills, Leaks, Investigation and Cleanup) program is designed to protect and restore water quality from spills, leaks and similar discharges. All three of the sites on this list are considered an open site undergoing site assessments, but are considered low priority. The sites are outside of the construction zone and presents no threat to this project.
- The HAZNET data base extracts copies of hazardous waste manifest received each year by the DTSC. The 58 sites that showed up on this data base show that hazardous waste was deposited properly.
- Eleven (11) sites showed up on the Clandestine Drug Labs (CDL) database during a records search. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

## **6.5 Feather River South**

This section of the levee project contained:

One (1) site on the Clandestine Drug Labs (CDL) database

- One (1) site showed up on the Clandestine Drug Labs (CDL) database during a records search. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or

does not require additional cleanup work.

## **6.6 Sutter Bypass**

This section of the levee project contained:

One (1) site that showed up on the ENVIROSTOR database.

- The ENVIROSTOR database comes from DTSC and identifies sites that have known contamination or sites for which there may be reason to investigate further. Growers Ag Services, Inc. is considered an open case by the California Regional Water Quality Control Board. A preliminary assessment has been done and no further action is recommended by the EPA. The Central Valley RWQCB (Region 5S) has it listed as a cleanup program site due to presence of discolored soil and pesticide odor noted on site.

## **6.7 Wadsworth Canal**

This section of the levee project contained:

Three (3) UST's

One (1) site on the Spills, Leaks, Investigation, and Cleanup (SLIC) database

- Three (3) Underground Storage Tanks (UST's) were mentioned in the data search and located during the site visit. All 3 of the UST's are outside of the construction zone and present no threat to this project.

- The SLIC (Spills, Leaks, Investigation and Cleanup) program is designed to protect and restore water quality from spills, leaks and similar discharges. The Helena Chemical Company showed up on this list as an open site undergoing a site assessment for potential contamination of fertilizers. The site is outside of the construction zone and presents no threat to this project.

## **7.0 FINDINGS AND CONCLUSIONS**

Based on information gathered during the site visit, data base search, and interviews conducted, there is no apparent HTRW contamination within the study limits.

The results of the interviews and research of available records of known or suspected contaminated sites indicate the potential for HTRW impact from inundation may be significant. The following additional factors should also be considered.

Possible pesticide residuals in the soil due to normal pesticide application.

Possible soil contamination associated with unknown or unregistered UST's and AST's within the study areas.

Based on information gathered during the site visit and data base search there is no apparent HTRW contamination, that is not already documented within the study area, that may affect the proposed project.

## APPENDICES

- Appendix 1 Site Map
- Appendix 2 Photos
- Appendix 3 Regulatory Research Documentation  
EDR

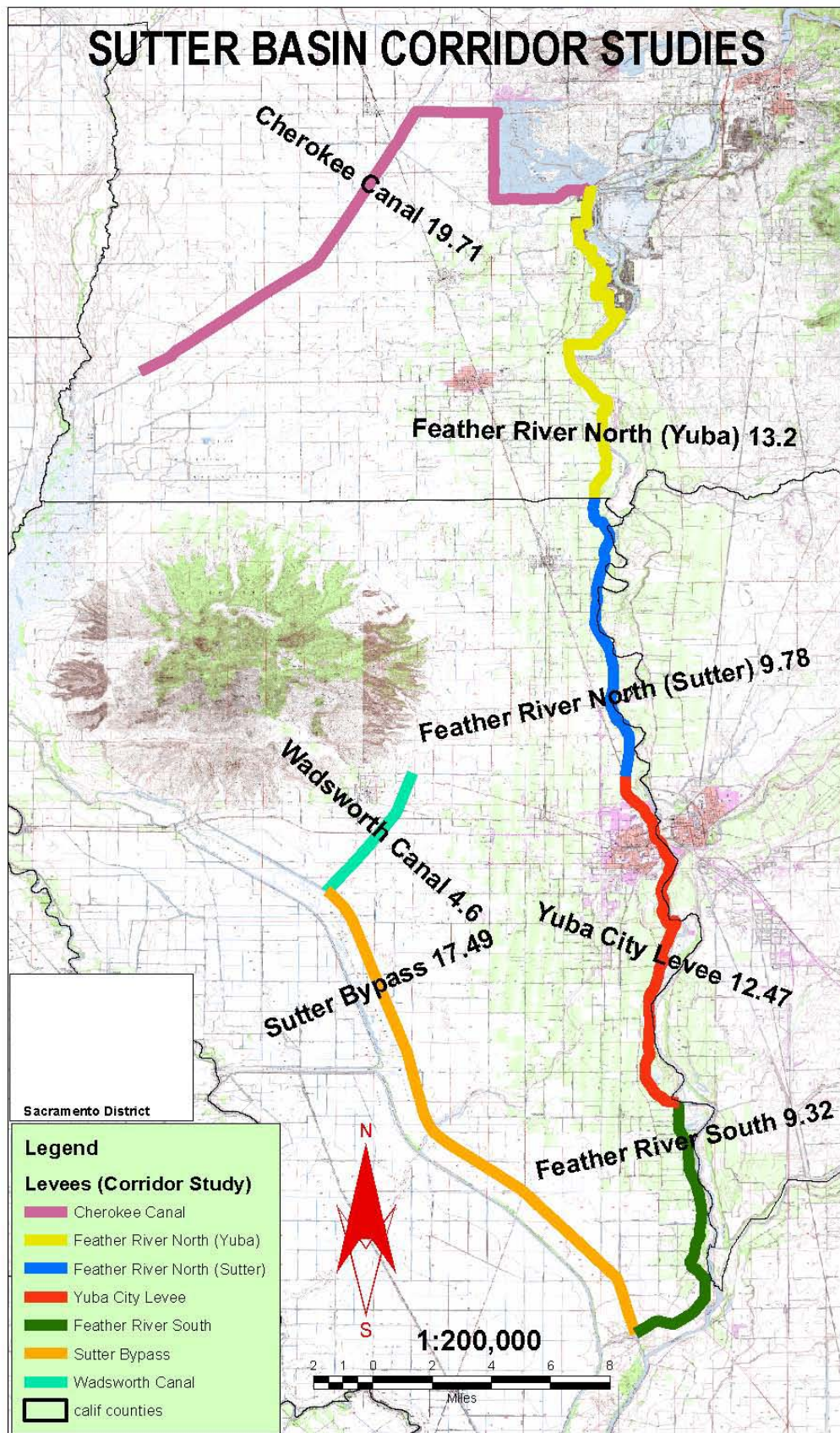




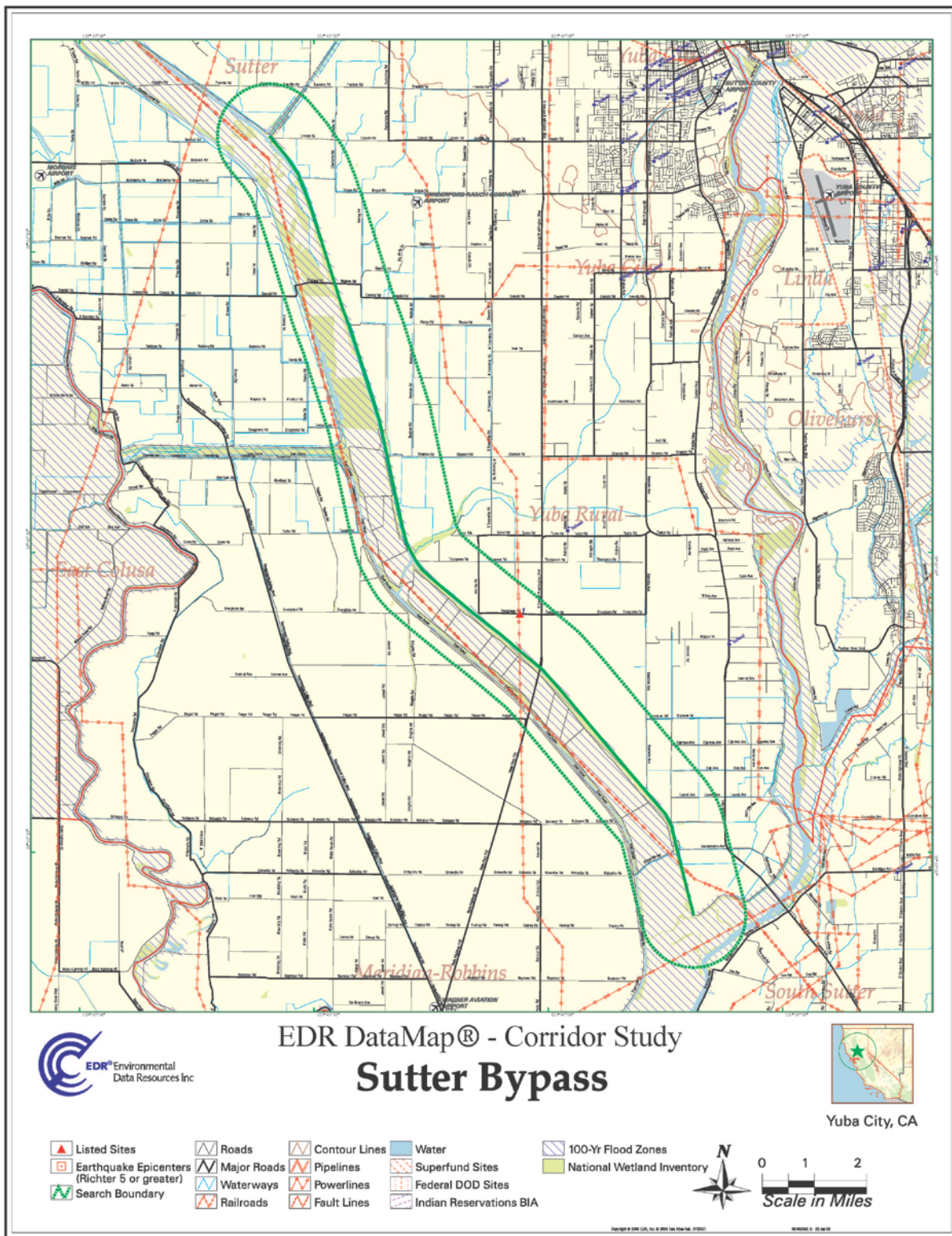
# Appendix 1

## SITE MAPS

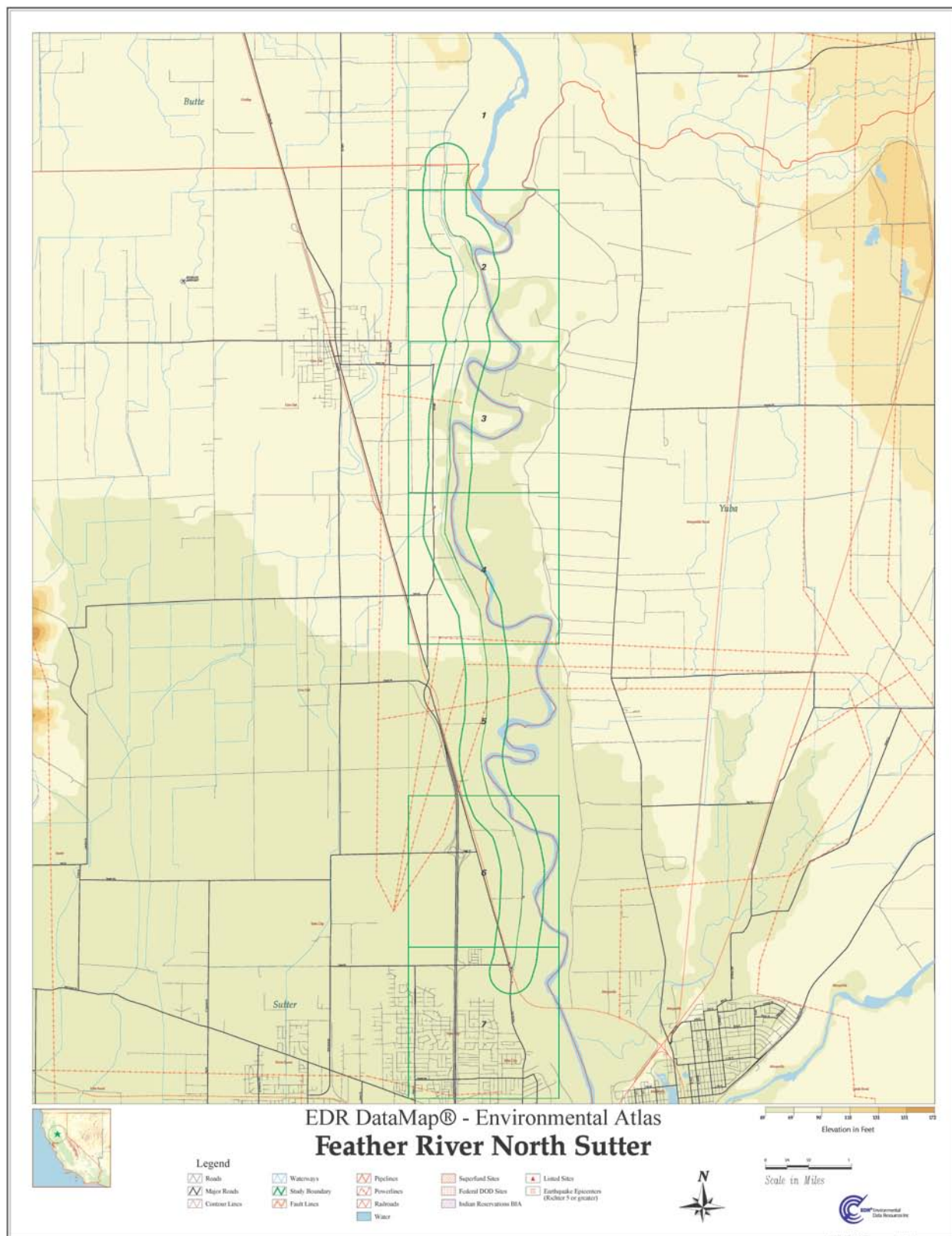


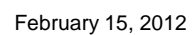




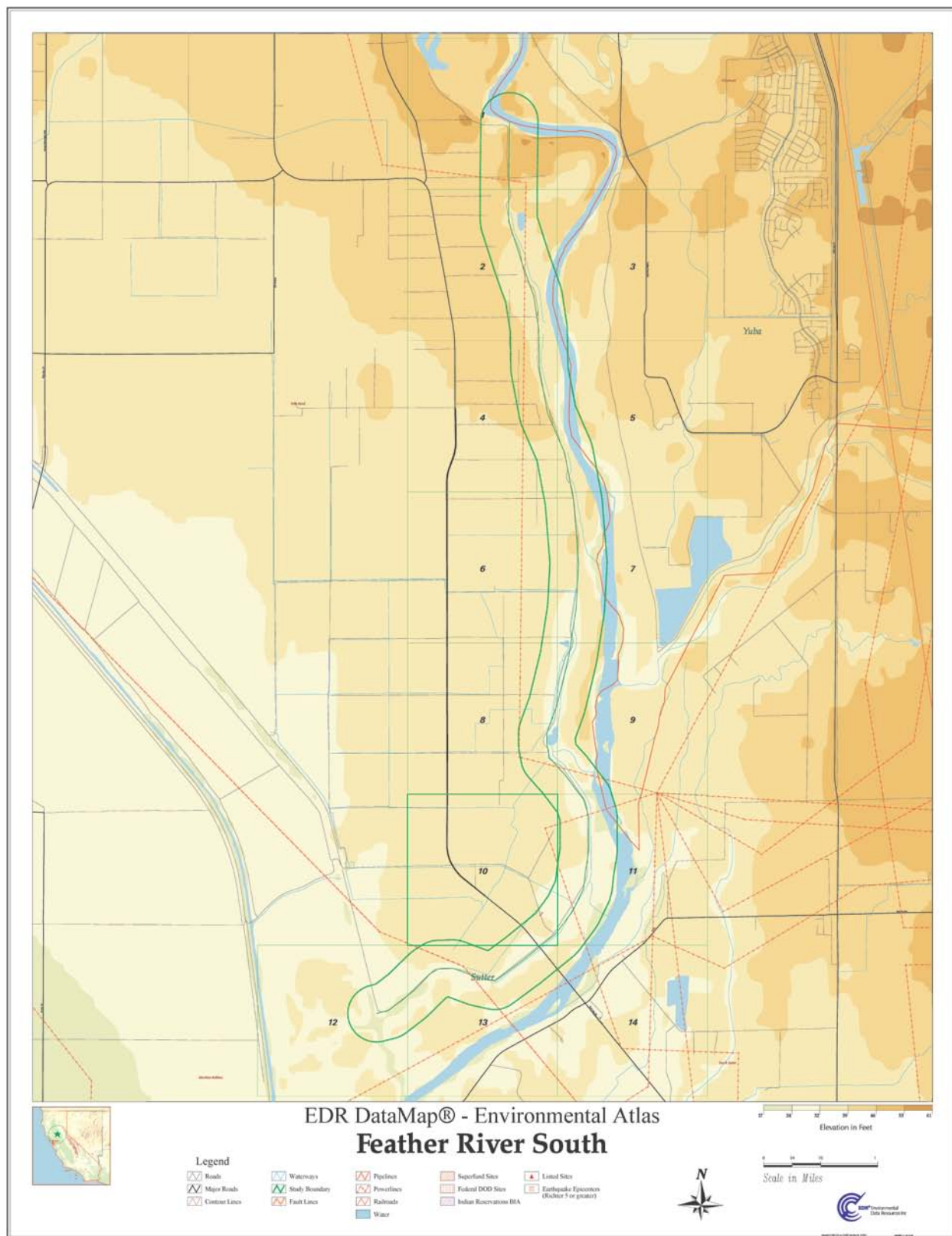


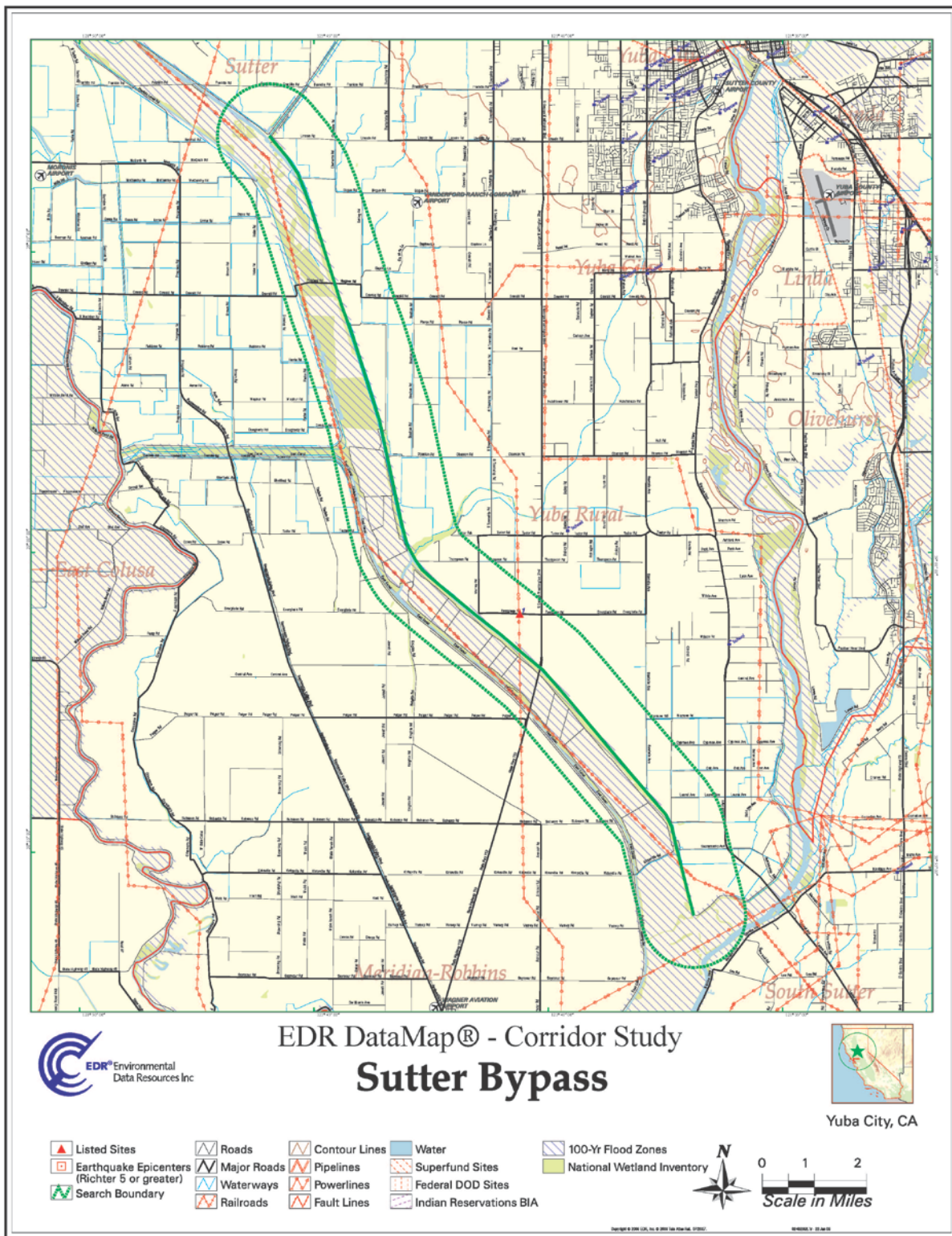




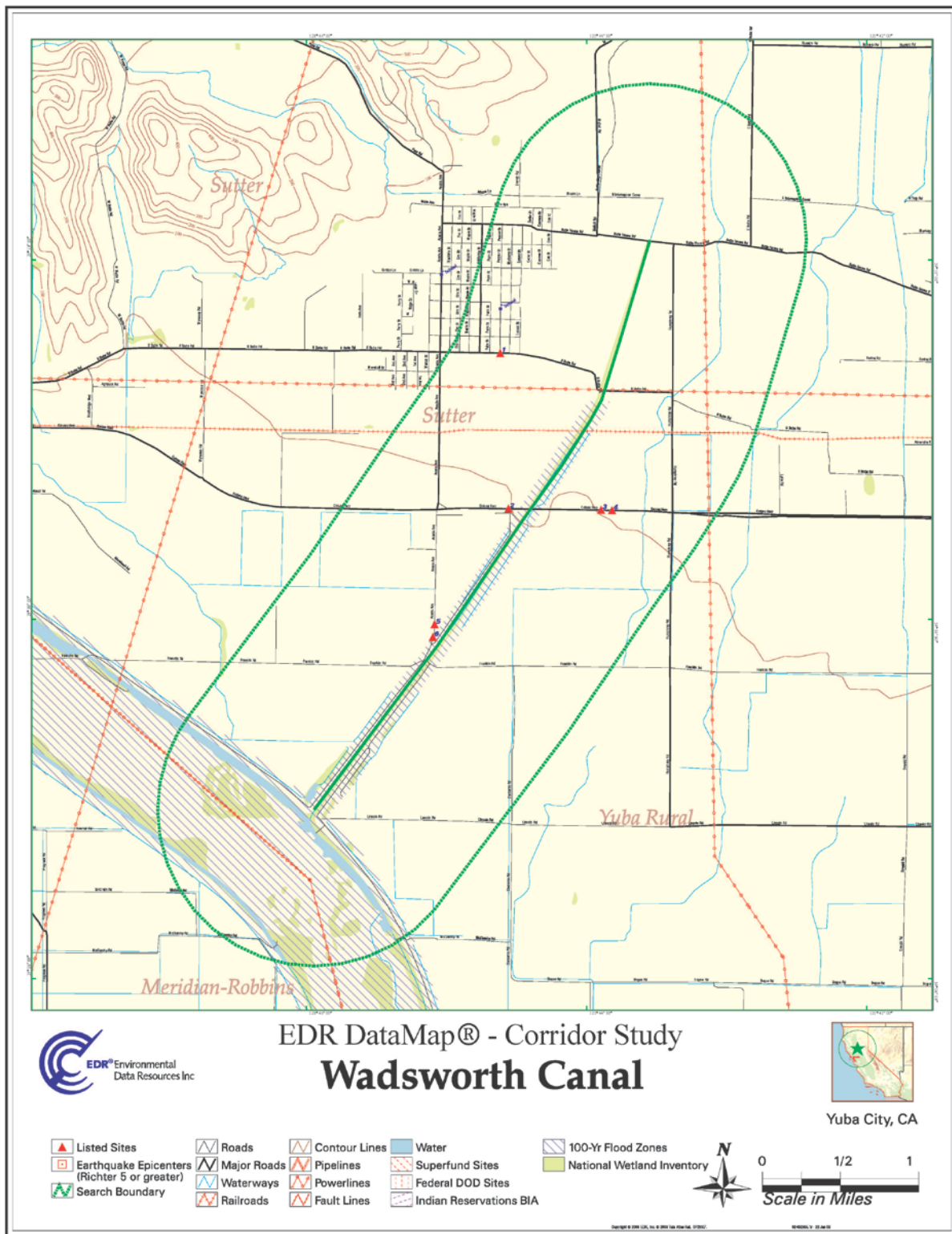




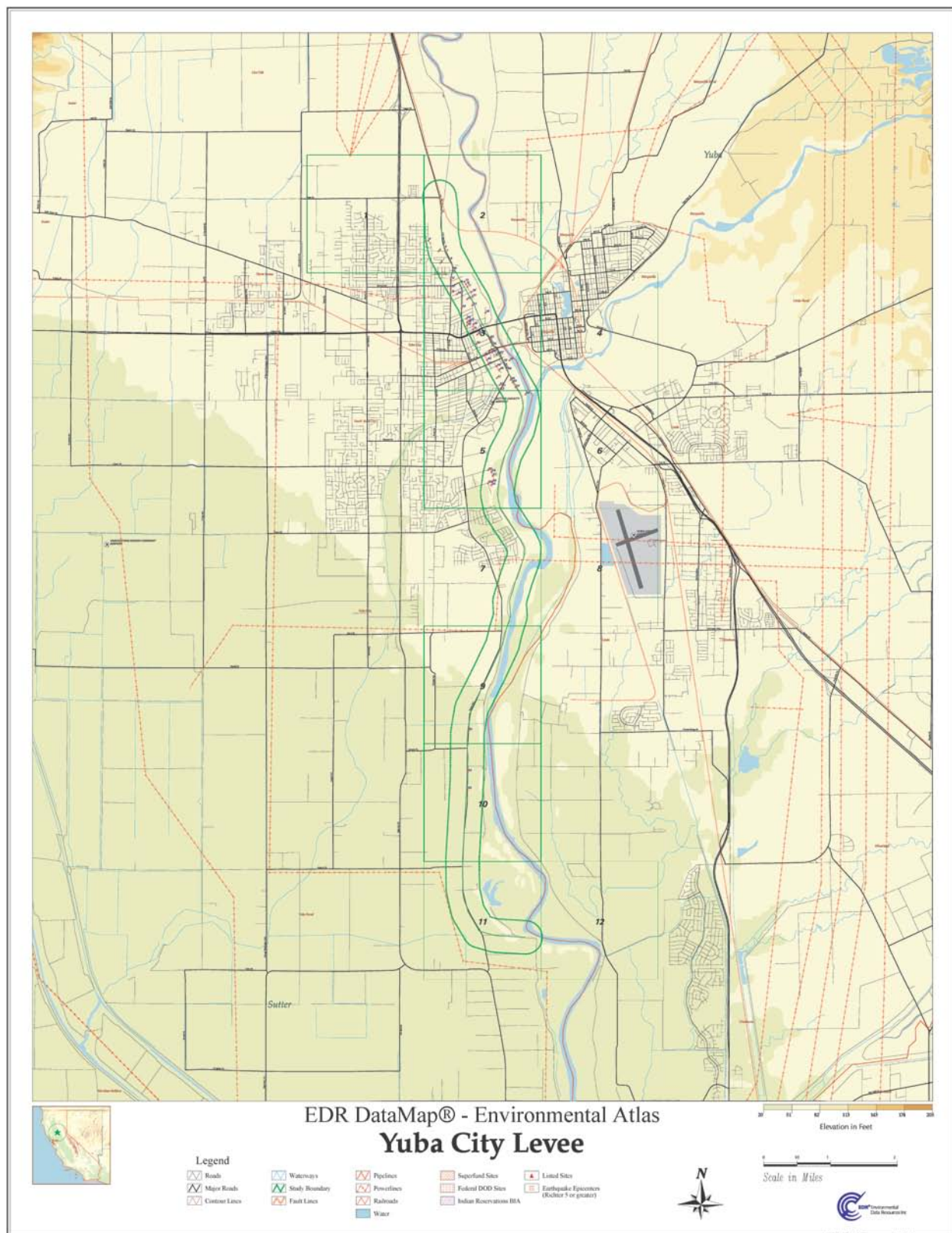












# Appendix 2

## PHOTOS





Start of the Cherokee Canal, looking NE from the Colusa Highway



Cherokee Canal overcrossing on the Richvale Hwy looking north



Sutter Bypass at Sacramento Ave. on the west side of the canal. Tanks are presumed to hold pesticides but no staining or leaks were visible.





Feather River North (Yuba) at East Gridley Road





Yuba City Levee, 2<sup>nd</sup> Street Boat Ramp



Yuba City Levee, 2<sup>nd</sup> Street



Yuba City Levee, 5<sup>th</sup> Street



Yuba City Levee, B Street



Yuba City Levee Highway 20



Yuba City Levee, Keyser Street



Yuba City Levee, Sutter Street



Yuba City Levee, Teega Ave.





Feather River South, Laura Ave.



Sutter Bypass





Sutter Bypass



Sutter Bypass



Sutter Bypass



Wadsworth Canal, Butte Road



Wadsworth Canal, Highway 20



# Appendix 3

## REGULATORY RESEARCH DOCUMENTATION





Appendix I

**Cultural Context, Native American Correspondence,  
and Identified Resource Descriptions**

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# Appendix I

## Cultural Context, Native American Correspondence, and Identified Resource Descriptions

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This appendix provides information in support of Section 3.17, *Cultural Resources*. This appendix contains a description of the prehistoric, ethnographic, and historic contexts for the FRLWP, a list of previous cultural resource studies performed in and near the footprint of the action alternatives, a list of properties on the National Register of Historic Places (NRHP) that occur near the action alternatives, as well as records of correspondence with the Native American community. Table I-1 presents a list of acronyms and abbreviations found in this appendix.

**Table I-1. List of Acronyms and Abbreviations**

APE	area of potential effects
APN	assessor's parcel number
B.P.	before present
CEQA	California Environmental Quality Act
CRHR	California Register of Historic Resources
LD 1	Levee District 1
FERC	Federal Energy Regulatory Commission
kV	kilovolt
MGD	million gallons per day
NAHC	Native American Heritage Commission
NRHP	National Register of Historic Places
SRFCP	Sacramento River Flood Control Project
USACE	U.S. Army Corps of Engineers

## I.1 Cultural Context

### I.1.1 Prehistoric Context

#### I.1.1.1 Feather River Vicinity, Foothills

The foothill region in the project vicinity corresponds roughly to the ethnographically known Maidu territory, and includes four recognized prehistoric archeological phases: the Mesilla, Bidwell, Sweetwater, and Oroville (Moratto 1984; Selverston et al. 2005).

Dating to approximately 3000–2000 before present (B.P.), the Mesilla Complex is characterized by atlatl projectile points (spear tips), bowl mortars, various shell beads, charm stones, and bone implements. Sites defining this phase apparently reflect seasonal forays into the foothills for hunting and gathering and appear to indicate a Martis influence (Moratto 1984). The Martis culture consists of large atlatl projectile points found at higher altitudes in the Sierra Nevada mountain range.

The Bidwell Complex dates to approximately 2000–1200 B.P., and is defined by milling stones, wooden mortars (inferred from ethnographic sources; none have been found), large slate and basalt points, steatite vessels, and flexed burials. The settlement/subsistence pattern appears to have included permanent villages with surrounding task-specific locations (e.g., hunting, fishing, food processing).

The Sweetwater Complex dates to 1200–500 B.P. Relevant material culture includes shell, bead, and ornament forms; steatite cups; small projectile points (Eastgate, Rose Spring, and Gunther Barbed types); and extended or semi-extended burials.

The Oroville Complex dates to approximately 500–150 B.P. Typical manifestations include bedrock mortars, incised bird bone tubes, gorge hooks, gaming bones, clamshell disk beads, circular dance houses, and tightly flexed burials. This phase ended with the malaria epidemic of 1833, which greatly reduced the Maidu population (Riddell 1978).

### **I.1.1.2 Valley Prehistory**

The prehistoric sequence of the Central Valley has been revised several times, and therefore a variety of terms are used across the relevant literature. Early literature described the prehistoric cultures in terms of different, regional manifestations with unique material culture, called patterns. Frequently used regional divisions refer to Windmill, Berkeley, and Augustine patterns. The current explanatory framework focuses less on regionally specific aspects and integrates the overall prehistory into a sequence (Bennyhoff and Fredrickson 1994). Bennyhoff and Fredrickson describe the Central Valley prehistory in terms of Early, Middle, and Late Horizons. This revision considers Central Valley prehistory in terms of culture change as a process rather than the more descriptive methods of early literature.

#### **Early Horizon, Pleistocene/Holocene Transition: 12,000–8000 B.P.**

Archaeological evidence for human use of the Central Valley during the late Pleistocene and early Holocene is scarce. At the end of the Pleistocene, circa 12,000–8000 B.P., parts of the Sierra Nevada adjacent to the Central Valley were covered with large glaciers, and the valley provided a major transportation route for animals and people. This transportation corridor, perhaps rivaled only by maritime coastal travel, undoubtedly was used heavily by early Californians.

Although rare, the archaeological remains of these activities have been identified in the Central Valley (Ann S. Peak & Associates 1981; Johnson 1967; Treganza and Heizer 1953). Johnson (1967) presents evidence for some use of the Mokelumne River area, under what is now Camanche Reservoir, during the late Pleistocene. A number of lithic cores and a flake were found at three different locations. All lithic specimens were associated with Pleistocene-age gravels. Early research describes this material as part of the Farmington Complex, characterized by core tools and large, reworked percussion flakes (Treganza and Heizer 1953:28). Farther north, at Rancho Murieta, lithic artifacts spanning the reduction sequence, as well as unworked raw material, were recovered from gravel deposits attributed to the late Pleistocene (Ann S. Peak & Associates 1981). However, recent geoarchaeological investigations at CA-STA-69 (in the vicinity of Farmington Complex-type site CA-STA-44) identified Farmington artifacts at the site within Holocene-age alluvial terrace deposits, not Pleistocene-age deposits. These indicate reinvestigation of the age of the Farmington Complex may associate this archaeological culture with the Holocene (Rosenthal et al. 2007).



Most researchers conclude the Pleistocene and early Holocene human economy focused on large game. Although no direct evidence of this exists in the Central Valley, the similarity of the artifact assemblages to those of other locations in western North America, where the association can be demonstrated, supports this argument. Many large Pleistocene mammals suffered extinction during the Pleistocene/Holocene transition. These extinctions were caused by warming temperatures, rising sea levels, and changing precipitation patterns (Meyer and Rosenthal 2008). The Central Valley gradually became both warmer and dryer. Pine forests were replaced with vegetation similar to that found today. The rising sea level filled what is now the San Francisco Bay and created the Sacramento–San Joaquin River Delta marshes. To survive without large game, people had to change their food procurement strategies to make use of a more diverse range of smaller plants and animals (Moratto 1984).

### **Early Horizon: 8000–4000 B.P.**

As humans altered their subsistence strategy to increase the range of pursued food items, their mobility also increased. Small groups of people probably moved through the valley, foothills, and Sierra Nevada to take advantage of seasonally available resources and resources limited to particular unique environments. The ability to move from resource to resource was a critical element of this subsistence strategy (Rosenthal et al. 2007).

Reliance on a number of diverse smaller plants and animals had several consequences. First, people had to move from one area to another to take advantage of the seasonal availability of particular resources. Second, large areas of land were needed to ensure that enough resources were available during all times of the year. Third, more specialized tools were necessary to procure and process the wider range of plants and animals that were being used. This broad-based strategy continued relatively unchanged until approximately 6000 B.P.

As the population slowly increased, it became increasingly difficult for people to obtain seasonally available resources across large areas of land (Meyer and Rosenthal 2008). Dental pathologies in the burial record reveal dietary stress (Moratto 1978). Growing populations decreased the land available to given cultural units, and thus the suite of resources available to those populations. This pressure resulted in a further expansion of the suite of resources pursued, relative to previous conditions.

Fredrickson (1973) identified archaeological indicators of this expansion in the Windmill site (CA-SAC-107). Artifacts and faunal remains at Windmill sites indicate that a diverse range of resources were exploited, including seeds, a variety of small game, and fish. The material culture includes trident fish spears; at least two types of fishhooks; quartz crystals and numerous charm stone styles; and a baked clay assemblage that included net sinkers, pecan-shaped fish line sinkers, and cooking balls. Ground-stone items included mortars and pestles. The bone tool industry appears minimal but includes awls, needles, and flakers. People with a Windmill adaptation buried their dead in formal cemeteries, both within and separate from their villages, in a ritual context that included the use of red ochre, often rich grave offerings, and ventral extension with a predominantly western orientation (although other burial positions, such as dorsal extension and flexed, and cremations are also known) (Moratto 1984). While the Windmill pattern is identified with the Sacramento–San Joaquin River Delta, work at Camanche Reservoir has identified sites with Windmill assemblages (Johnson 1967), indicating that other valley settings also were used by people exhibiting these adaptations.

## **Middle Horizon: 4000–1500 B.P.**

In the Middle Horizon, resource specialization resulting from the expanded subsistence strategy is readily visible in the archaeological record. Dietary expansion was associated with new exploitation of niche environments such as marshlands in the Delta. Acorn procurement from oak trees (*Quercus*, sp.) also increased. The acorn had been used before this time, but it became a much more significant portion of the overall diet breadth, with specialized procurement and processing technologies (Rosenthal et al. 2007). People in this period were more sedentary than they had been in the past, and village sites are found throughout the valley along rivers and near other areas with permanent sources of water (Moratto 1984).

Previous research described the Berkeley Pattern identified at CA-Ala-307 as a typical Middle Horizon site (Fredrickson 1973). Sites displaying Windmill Pattern assemblages, however, also are found in the Middle Horizon. The Windmill Pattern sites in this period seem to occur with more frequency in or near the Delta, while Berkeley Pattern sites tend to be more prevalent farther north. The Berkeley Pattern differs primarily in its greater emphasis on the exploitation of the acorn as a staple. This distinction is reflected in the more numerous and varied mortars and pestles. This complex is also noted for its especially well-developed bone tool industry and such technological innovations as ribbon flaking of chipped stone artifacts. During this era, flexed burials replaced extended burials, and the use of grave goods generally declined (Moratto 1984).

A restricted land base, coupled with a more specialized resource base, meant that people had to develop economic relationships with groups of people living in other areas who had different specialized resources. Although resources and commodities were being exchanged throughout the region prior to this period, it is during this period that more extensive and more frequently used economic networks developed. Transported resources likely included foods (trans-Sierra acorn movement is known from later periods) and commodities more visible in the archaeological record such as shell and lithic materials (Moratto 1984).

## **Late Horizon: 1500–150 B.P.**

The Late Horizon archaeological record documents further increases in specialization, sedentary settlement, and exchange networks relative to the Middle Horizon. Population continued to increase, and group territories continued to become smaller and more defined. The Delta region of the Central Valley reached population density figures higher than almost any other area of North America (Chartkoff and Chartkoff 1984). Patterns in the activities, social relationships, belief systems, and material culture continued to develop during this period and took forms similar to those described by the first Europeans that entered the area.

The predominant generalized subsistence pattern during this period is called the Augustine Pattern (Fredrickson 1973). Archaeological sites representing the Augustine Pattern show a high degree of technological specialization. Artifacts in this period include artifacts of composite materials, developed reductive technologies such as stone and shell work, and highly specialized adaptive technologies, including basketwork and ceramic production. Other notable elements of the material culture assemblage include flanged tubular smoking pipes; harpoons; ceramic figurines and vessels (Cosumnes Brownware); clamshell disk beads; and small projectile point types such as the Gunther Barbed series. These small projectile points may indicate the use of the bow and arrow. Complex social and economic institutions also are represented by different access to wealth, the

implementation of a shell money system, and the maintenance of extensive exchange networks (Meyer and Rosenthal 2008).

## **I.1.2 Ethnographic Context**

### **I.1.2.1 Konkow Maidu**

The Konkow Maidu occupied foothills east of Chico and Oroville, as well as a portion of the Sacramento Valley (Riddell 1978). Konkow is one of three languages composing the Maiduan language family of the Penutian linguistic stock. Several dialects of Konkow were spoken from the lower extent of the Feather River Canyon to the surrounding hills and in the adjacent parts of the Sacramento Valley (Shipley 1978).

The Konkow lived in village communities of three to five villages, in round semi-subterranean houses covered with earth. It is estimated that a typical village consisted of about 35 people during ethnographic times. Villages were made up of smaller groups. Family units usually were made up of two to five people. A major village with a large assembly and subterranean ceremonial lodge served as the central ceremonial and political focus for affiliated villages in the vicinity. This central village was not necessarily the most populous village but likely served as the residence of the chief, who lived in the ceremonial lodge. The chief's primary roles were advisor and spokesman. The individual villages were self-sufficient, not under the control of a headman (California Department of Water Resources 2004; Riddell 1978).

In winter, the Konkow settled in widely dispersed patterns along river canyons, usually on ridges high above rivers and generally on small flats on the crest of the ridge, or half way down the canyon side. A village-community owned and defended a known territory, which served as a communal hunting and fishing ground. Some villages were located strategically atop isolated knolls in consideration of attack and defense. The Konkow followed an annual gathering cycle that made it necessary for them to leave their winter settlements on the river ridges. In the summer, they traveled into the mountains to hunt. In the spring, they ventured into the valley areas to collect grass seeds (Riddell 1978).

The Konkow harvested greens, tubers, roots, seeds, nuts, and berries. Although wild rye was common in their diet and pine nuts were highly valued, the most important of the harvested foods were acorns, from black oak (*Quercus kelloggi*) in particular. Konkow burned grass and brush cover to optimize the mix of plants eaten by deer. Fisherman pursued salmon on the Feather River. The Konkow also pursued lamprey eels. Terrestrial game eaten by the Konkow included deer, elk, rabbits, squirrels, and birds such as quail, pigeons, and ducks (California Department of Water Resources 2004; Riddell 1978).

Because the Konkow had no complex political organization, the shaman was an important figure in their society. The shaman occupied a role that combined political, spiritual, and medical functions. The shaman role was passed down as a hereditary office from father to son (Riddell 1978).

The Konkow held an annual mourning ceremony, the Keruk, for the recently deceased, which reenacted the death of the creator, Kukumat. For this ceremony a male and female effigy were created, clothed, and burned. The Konkow also offered money, food, and blankets to the god, through incineration. The Maidu participated in the Kuksu cult, also practiced by the Patwin, Pomo, northern Costanoans, and the Coast and Sierra Miwok. Kuksu, "the south god," renewed the world

each year. The ritual was celebrated in round dance houses by dancers with elaborate costumes, including large feather headdresses (Riddell 1978).

Konkow life was little affected by European contact until the gold rush in 1849. At this time miners descended upon the Feather River and surrounding foothills to remove abundant gold. The miners brought diseases that were deadly to the native peoples, decimating the population. These miners also destroyed the landscape with their mining techniques and violently drove the surviving Konkow from their lands. When the mining craze was over, the miners settled in the area and turned large tracts of land into agricultural fields. Because the miners wanted their land, the Konkow were twice driven off their traditional lands. In 1853, the Konkow, along with other Native American groups, were gathered by force and sent to the Nome Lackee reservation in Tehama County. This was not a successful reservation, and most of the families returned to their original lands. In 1863, the Konkow again were rounded up by militias and driven to the Round Valley Reservation in northern Mendocino County. Many of these families remain in Round Valley today. Around the turn of the twentieth century, the Federal government created rancherias for the Konkow, establishing a limited land base for the tribe and formalizing their tribal status with the Federal government. Today the Konkow are very active in cultural preservation in and around the Palermo/Feather River area. (California Department of Water Resources 2004.)

### **I.1.2.2 Valley Nisenan**

The Feather River West Levee Project encompasses lands associated with the Southern Maidu, or Nisenan. The language of the Nisenan, which includes several dialects, is classified in the Maiduan family of the Penutian linguistic stock (Kroeber 1976; Shipley 1978). The western boundary of Nisenan territory was the western bank of the Sacramento River. The eastern boundary was “the line in the Sierra Nevada mountains where the snow lay on the ground all winter” (Littlejohn 1928).

Nisenan permanent villages usually were located on low rises along major watercourses. Village size ranged from 3 houses to 50. Houses were domed structures covered with earth and tule or grass and measured 3.0–4.6 meters in diameter. Brush shelters were used in the summer and at temporary camps during food-gathering rounds. Larger villages often had semi-subterranean dance houses that were covered in earth and tule or brush, with a central smoke hole at the top and an east-facing entrance. Another common village structure was a granary used for storing acorns (Wilson and Towne 1978). A Nisenan village, Holloh, was located just outside of the eastern boundary of the project area along the Bear River.

The Nisenan occupied permanent settlements from which specific task groups set out to harvest the seasonal bounty of flora and fauna provided by the rich valley environment. The Valley Nisenan economy involved riparian resources, in contrast to the Hill Nisenan, whose resource base consisted primarily of acorn and game procurement. The Nisenan cultivated native tobacco (*Nicotiana* sp.), and also managed wild species through burning. The Nisenan harvested blue oak (*Quercus douglasii*) and black oak (*Q. kelloggii*). Acorns could be stored in anticipation of winter shortfalls in resource abundance. Deer, rabbit, and salmon were the chief sources of animal protein in the aboriginal diet, but many other insect and animal species were taken when available.

Religion played an important role in Nisenan life. The Nisenan believe that all natural objects were endowed with supernatural powers. Two kinds of shamans existed: curing shamans and religious shamans. Curing shamans had limited contact with the spirit world and diagnosed and healed

illnesses. Religious shamans gained control over the spirits through dreams and esoteric experiences (Wilson and Towne 1978). The usual mode of burial was cremation (Faye 1923).

The gold rush of 1849 had a devastating effect on the Valley Nisenan. The flood of miners that came to the area in search of gold brought diseases with them that decimated the Nisenan population. Those who survived were subjected to violence and prejudice at the hands of the miners, and the Nisenan eventually were pushed out of their ancestral territory. Although this contact with settlers had a profound negative effect on the Nisenan population, the Nisenan people survive and maintain strong communities.

## **I.1.3 Historical Context**

### **I.1.3.1 Early Exploration**

Spanish exploration of the region began with Gabriel Moraga's forays into the region in 1808. Moraga named one of the area rivers *Rio de las Uvas*, which came to be known as the Yuba River. Hudson's Bay Company trappers later traveled through the region in the 1830s, followed by the expedition led by John C. Fremont in 1846. Sutter County received its name from John A. Sutter, who established Sutter's Fort in Sacramento during the early 1840s and whose Hock Farm and New Helvetia lands included areas of Sutter County (Hoover et al. 1990; Rawls and Bean 2003; Williams et al. 2002).

### **I.1.3.2 Gold Rush**

This region exploded with mining activity during the gold rush, which attracted both American and international settlers. Euro Americans settled the present-day Yuba City/Marysville area intensively during the California gold rush. Beginning in 1849, prospectors and entrepreneurs overran the streams of the Sierra Nevada, including the Feather and Yuba Rivers, in search of riches. Placer miners initially established claims and settlements on watercourses, and then gradually worked back from the flats adjacent to streams to ridges and hillsides.

The flood of 1850 encouraged miners to work areas located above the high-water mark of the Feather and Yuba Rivers. By 1857, hydraulic mining began to replace the placer methods. Hydraulic mining occurred primarily in uplands, while small-scale placer mining operations continued along rivers and streams. Hydraulic mining removed large upland deposits, which were washed into waterways, contributing to disastrous flooding and making waterways un-navigable. The industry went into decline after 1884, when a Federal court outlawed mining debris in rivers in the decision *Woodruff v. North Bloomfield Gravel Mining Company*. Gold excavation in the region was revived with dredge mining operations around Oroville and Honcut after 1900 (Rawls and Bean 2003; Williams et al. 2002).

### **I.1.3.3 Agriculture and Irrigation**

Settlers raised wheat and vegetables in the Yuba City /Marysville area as early as the 1840s. Small-scale hop farming was introduced to the area in 1859. Domesticated cattle and sheep arrived from the Midwest in the early 1850s and multiplied substantially. Agriculture made gains in the region during the 1860s, but in Butte County mining activity increased at the expense of agriculture during the next decade (Rawls and Bean 2003; Williams et al. 2002).



During the 1880s the agricultural economy increased markedly, as a result of two factors. First, the conversion of hydraulic-mining water conduits to irrigation systems, a process dominated by private companies in this region of California, introduced the possibility of transforming otherwise poor land into highly productive agricultural land. Second, the railroad and, by the late 1880s, the refrigerated rail car, encouraged local farmers' participation in a wider range of markets (Rawls and Bean 2003; Williams et al. 2002).

Fruit production became a major element of the regional economy during the last two decades of the nineteenth century. Citrus colonies were organized in Butte County between 1886 and 1895, the most prominent of which were Thermalito, Palermo, and Rio Bonito (Frederich 1974).

The shift from grain to fruit production in the late nineteenth century inspired efforts to build the region's first significant agricultural irrigation systems; dedicated agricultural irrigated networks had not operated until that time. In 1891, convinced that Butte County farmers required a supplemental source of water to reliably irrigate their diversifying farms, Biggs resident Thomas Fleming proposed a system of canals and lateral ditches to serve the area around Gridley. Under Fleming's plan, this forerunner to the current Sutter-Butte Canal would have included a weir and diversion canal that began on the west bank of the Feather River near Hamilton, and several lateral ditches to deliver water from the main trunk of the canal to Gridley-area farmers. Fleming consulted with local landowners and commissioned a survey of the land on which he planned to construct his canal system, but failed to secure the capital required to begin construction on the project (McGie 1980:52).

In 1904, the Butte Canal Company was organized and work began on the construction of the canal, laterals, and headgate on the Feather River (McGie 1980:12). The Butte County Canal opened in 1905 and included a Sutter County extension that operated separately. The availability of irrigated land led to the advertisement of relatively small, subdivided lots, on which the California Irrigated Land Company advised prospective buyers to grow fruit, vines, and alfalfa; the last of these had to be imported from Utah until the advent of reliable Sacramento Valley irrigation (McGie 1980:12, 13).

Following a 1909 lawsuit, Butte County Canal Company took possession of the water rights of Sutter County Canal Company, which had previously purchased water from the Butte County operation and conveyed it through a southern extension of the Butte County Canal. The company was formally rechristened Sutter-Butte Canal Company in 1911.

The financial decline that affected the Sutter-Butte Canal Company in the 1930s and 1940s continued into the 1950s. Frustrated with rising usage fees, landowners in the Gridley, Biggs, and Live Oak areas voted to buy out Sutter-Butte Canal Company water rights in those areas. In 1950 a group of Sutter County growers initiated plans for the Sutter Extension Water District. By December of that year, a majority of land owners in the proposed district elected to purchase what was then 19% of Sutter-Butte Canal Company's water rights and the company's Sunset Pumping Plant. With this purchase—and two that predated it—Sutter-Butte Canal Company's service area was reduced to only sections of Gridley and Live Oak. In July 1953, overcoming the objections of Gridley Colony Ditch #1 and Biggs Ditch Company, the Butte Water District successfully orchestrated the acquisition of this remaining Sutter-Butte territory, bringing the run of the Sutter-Butte Canal Company to an end. Over the preceding 30 years, its holdings had been divided by the two aforementioned districts, plus the Biggs-West Gridley Water District and Richvale Irrigation District (McGie 1980:61, 66–68).

### I.1.3.4 Settlement of Local Towns

A large portion of the project area was originally included in John A. Sutter's New Helvetia land grant established in 1841. In order to support his settlement in Sacramento, Sutter started a livestock ranch called the Hock Farm near the site of what would become Yuba City. Yuba City was founded in 1849 on land purchased from John Sutter by Samuel Brannan, Pierson Reading, and Henry Cheever. They established a distribution center for supplying the gold rush 49ers. Sam Brannan, as senior partner, had the town site laid out and hired agents to sell lots. During the gold rush, Marysville, on the east bank of the Feather River, overshadowed Yuba City because it was easier for miners arriving by riverboat from San Francisco and Sacramento to reach the gold fields to the east. It was not until after the gold rush was over, and people turned to the fertile land west of the river, that Yuba City began to prosper. Yuba City was established as the county seat by a vote in 1856 and incorporated January 23, 1908 (Rawls and Bean 2003; Williams et al. 2002).

A residential district along 2nd Street began to form in Yuba City as early as 1869. This development was facilitated by the relocation of commercial and industrial activity near the southern end of 2nd Street further to the north. The 1890 Sanborn map reveals that several blocks along the east side of 2nd Street between C Street to the north and Garden Highway to the south were occupied by the Farmers Union Grain Warehouse. By 1899, the warehouse had moved north to a parcel closer to the growing industrialized area of the town, which encompassed parts of 2nd Street, Keyser Street, and B Street. This change left the area between C Street and the Garden Highway open for residential development. Between 1899 and 1909, the area began to fill in with large-scale residences. By 1927, the area was completely developed with a mix of large-scale residences and more modest homes. The period between 1869 and 1927 is significant because it represents Yuba City's initial phase of residential development, characterized predominantly by single-family homes, many of which were built on a large scale for some of the community's most prominent families. The residences were arranged within a rectilinear urban grid of relatively narrow, but deep, lots along 2nd Street. The homes within this neighborhood gave concrete expression to Yuba City's pattern of stable, residential growth during the late nineteenth century and early decades of the twentieth century.

The California and Oregon Railroad established Biggs in 1870, naming the town after the first rancher to ship grain from the region, Major Marion Biggs. By the early twentieth century, the town of Biggs had an established agricultural industry, predominantly producing hemp, alfalfa, berries, vegetables, and grapes. The town incorporated in 1903. From its beginning, Biggs has been associated with municipally owned public utilities—water works and an electricity distribution system purchased to provide Biggs residents with low cost utilities (Sacramento Bee 1953a; Sacramento Bee Annual Edition for 1902; Gudde and Bright 1998).

The Southern Pacific Railroad Company established the town of Gridley in 1870, naming the town after George W. Gridley, the owner of approximately 8,000 acres, 320 of which encompassed the new town. Gridley was a native of Cazenovia, New York, who migrated to California in 1850 in search of gold. In 1853, Gridley settled in Butte County, where he raised sheep and worked as an auctioneer. The city of Gridley grew steadily during the late nineteenth century, and by 1887 the town had a population of roughly 1,500 residents. From its origins, Gridley had a developed agricultural industry, including an established dairy production and a variety of crop output such as grain and fruit (Gudde and Bright 1998:153; Robb 1915; Sacramento Union 1887).

The town of Live Oak was established in 1874. Named by H. L. Gregory, the town grew steadily but slowly, and by 1881 it included a population of 180 residents. Live Oak historically has been an

agricultural community, producing crops such as walnuts, peaches, prunes, and grain. Ranching and canning also have been an important part of the agricultural industry in Live Oak. In 1947, the town featured the last of 65 canneries opened by the United States Department of Agriculture during World War II in high schools throughout California. The town incorporated in 1947 with a population of approximately 1,500 (Gudde and Bright 1998; Sacramento Bee 1947, 1953b, 1966; Sacramento Union 1881).

### **I.1.3.5 Flood Control and Reclamation**

Impacts from hydraulic mining were felt by most communities and farmers in the Sacramento Valley. In the early years of statehood, the Sacramento Valley experienced extensive flooding. In response, private landowners constructed small levees—between 3 and 4 feet high—near their farms. This was a pattern repeated by most landowners along rivers in the Sacramento area. These levees, however, proved ineffective and failed during the catastrophic floods from this early period (Crawford and Herrick 2006:138; McGowan 1961:287; O'Neill 2006:74). As the floods worsened, landowners attempted to build higher levees, but these too proved ineffective (McGowan 1961:288).

California was included in the Federal Swamp Land Act of 1850, which allowed the state to reclaim its wetlands through the construction of levees. The program, however, was riddled with corruption and problems that compounded levee construction (O'Neill 2006:48–50, 52, 73; U.S. Geological Survey 2006). In the early 1860s, as hydraulic mining increased and flooding continued to be a significant problem for farmers in the Sacramento Valley, a concentrated effort at levee construction began. The state legislature tried to coordinate a levee system and control levee construction by creating the Swamp Land Commission. Modeled after districts in Mississippi, the legislation gave California drainage districts, which were permitted to grant the power to construct levees. It would become the responsibility of state engineers to design the levees for each district. By the end of the first year, there were 28 districts. For a multitude of reasons, including more flooding, landowners who refused to pay levee fees, and others who were unable to pay, the system produced only minor tangible results. The legislature enhanced levee district powers in 1864, which spurred more levee construction (O'Neill 2006:81). However, by 1866, after complaints for local control over the districts, the state was no longer planning a centralized levee system. The following year, the region suffered another catastrophic flood when the American River rose so high that it flowed across the Sacramento River and breached the levees on the west side of the river, north of present-day West Sacramento in Yolo County (McGowan 1961:289).

The Green Act boosted levee construction in 1868. The act eliminated the limit on the number of swampland acres allowed under the Federal swampland program and transferred to landowners the task of creating levee districts. Between 1868 and 1871, almost all remaining swampland passed into the hands of private owners (O'Neill 2006:82). During this period, private owners constructed extensive levee systems that were much larger and, combined with the reclamation of swamplands, made flooding more serious (O'Neill 2006:82; McGowan 1961:287).

Levee construction and flood control were compounded in the 1880s and 1890s as the fight between miners and farmers continued. There was also disagreement between the U.S. Army Corps of Engineers (USACE) and the state about USACE's role and authority in the matter. This hindered Federal involvement. Local reclamation districts continued to build levees in a piecemeal fashion, including levees on the west bank of the Sacramento River. These raised the floodplain, protected the local lands, and blocked natural outlets. This created flood problems for residents farther down the river during the first part of the twentieth century.

In 1903 and 1904, the Sacramento River once again flooded. In 1904, a statewide lobbying organization was created for the purpose of generating more work from the state government for river improvement in cooperation with landowners and other government agencies. The governor created a Board of River Engineers composed of engineers with extensive experience with river management on the Mississippi River. The board recommendation was to relieve stress on the levees by constructing weirs that would temporarily allow excess water to bypass the river channel until a proper channel depth could be achieved. The proposal was rejected by the California Board of Trade, which was pushing for the construction of more levees. This was ultimately the approach adopted by the legislature (O'Neill 2006:94, 104, 106–107).

California continued to lobby the Federal government for help. Another devastating flood in 1907 increased pressure for more Federal funding, but plans for a comprehensive flood control plan stalled after it was learned that the driving force behind the plan was private landowners. It would take until 1911 for California Debris Commission member Thomas H. Jackson to design a comprehensive flood control plan that was more than just constructing levees. This approach was acceptable to the Federal government, and a special session of the state legislature approved California's support and participation in the new flood plan (O'Neill 2006:111, 114–115). Lobbying efforts continued to press the Federal government and finally were successful when the 1917 Flood Control Act was passed. Among other things, the act required USACE to work with state governments and local levee districts and gave \$5.6 million to construct flood control facilities in the Sacramento Valley (O'Neill 2006:125). The act authorized the Sacramento River Flood Control Project (SRFCP), which provided for the construction of more levees and the Yolo and Sutter Bypasses. The SRFCP was the first complete Federal flood control project (Bailey 2007:24; California Central Valleys Flood Control Association 1960; O'Neill 2006:125).

Changes to the act were made in 1928, 1937, and 1941. The projects in the Sacramento Valley were further affected by the Flood Control Acts of 1944, 1950, 1958, and 1960. The SRFCP resulted in 980 miles of levee construction (California Central Valleys Flood Control Association 1960). In 1955, another devastating flood occurred in the Sacramento region. A subsequent investigation exposed structural and functional deficiencies in the levees that could not have been foreseen or tested until a flood occurred. The levees in the Sacramento Valley needed maintenance, which continued to be costly. One reason for the deterioration was thought to be erosion caused by increased pleasure boating on the rivers, which caused waves to erode adjacent levees (California Central Valleys Flood Control Association 1960).

## **Feather River Levees and Local Reclamation**

Levee District 1 (LD 1) was formed in April 1868, following a flood in 1867, to construct a portion of the present levees along the Feather River. The Green Act of 1868 fixed the present district boundaries. The flood of 1867 took out the existing levee across Gilsizer Slough. The levee broke again at Gilsizer Slough in 1871. From 1871 on, as hydraulic mining debris raised the bed of the Feather River channel, it was necessary to raise the existing levees and construct and maintain a back levee to protect the district from the waters in Sutter Basin between the Sacramento and Feather Rivers, which overflowed during high-water stages.

Realizing that the levee crown of the Feather River was too close to a possible flood stage, based on past floods and the possibility of the levee being overtopped, LD 1 decided to slab the sides and raise the crowns of all the levees 5 feet above the estimated flood plain. This project consisted of raising the Feather River levee from the south boundary of LD 1 to the wagon bridge between Yuba City and

Marysville. Work started in 1905 and was carried on in different locations along the Feather River until the flood of March 1907. Two breaks occurred on the levee, one on the Starr Bend north of Yuba City and one on the Holmes tract, about 5 miles south of Yuba City (Levee District 1 2009).

Nearly all of LD 1, including Yuba City, was flooded and much of the uncompleted dredger levee was washed away. The dredge work continued on the levee between Star Bend and Yuba City, and work was completed on a sand levee between Shanghai Bend and Yuba City when a flood occurred in 1909. The flood reached an elevation about 1 foot higher than the top of the levee in the pocket where the old bow levee joined the sand levee at Shanghai Bend. A break occurred in the sand levee at its junction with the old bow levee, which eroded to an 800-foot gap, and another break occurred in the sand levee halfway between Shanghai Bend and Yuba City, which eroded to a 2,600-foot gap. These breaks allowed water to overflow the lands between the sand levee and the old original levee along the Garden Highway. The sand levee constructed by the dredger on an alignment slightly east of the original earth levee was washed out, the water overflowed the old levee, and another break occurred just south of Shanghai Bend. During the year following the 1909 flood, the dredger filled the breaks in the sand levee. The moving of sand deposited by the dredger away from the river created a slope of 6–7 feet (Levee District 1 2009).

In 1938, USACE rebuilt the sand levee from Shanghai Bend to Yuba City. The levee was maintained by LD 1 from that time until 1955. In December 1955, California experienced heavy rains. As a result, a large boil exploded between Shanghai Bend and Yuba City. Nearly all of Yuba City was inundated, and 37 people were killed. The levee was rebuilt by USACE, affirming the critical role flood control plays in the regional economy.

## I.2 Previous Studies

Table I-2 lists studies that have been completed within the vicinity of the action alternatives.

**Table I-2. Previous Studies**

Study #	Year	Author(s)	Title
01047	1990	Bouey, P.	Sacramento River Flood Control System Evaluation, Marysville-Yuba City Area
01133	1980	Holman, M., and M. Clark	Archaeological Reconnaissance of the Feather River Project Area: Proposed Feather River Sand and Gravel Quarry
01405	1995	McGowan, D.	Cultural Resources Inventory Report of the Therm II Power Project
01485	1996	Storm, D.	Archaeological Investigations along the Feather River near Nicolaus, Audubon Sanctuary
02666	1998	Dietz, F.	Cultural Resources Assessment within Levee Districts 1 and 9, Maintenance Area 3
03134	1997	Shapiro, W. et al.	Archaeological Assessment within Levee District 1 and 9, Maintenance Area 3
06868	2005	Selverston, M. et al.	Archaeological and Historical Resources Inventory Report, Oroville Facilities Relicensing FERC Project No. 2100
07154	1992	Offerman, J.	Negative ASR: Extension of State Route 65 as a Connection between Routes 70 and 99 in Yuba and Sutter Counties
07165	2005	Quidachay, K., and S. Baxter	Cultural Resources Inventory Report for the Yuba Water Treatment Plant 24 to 30 MGD Water Supply Replacement Project



Study #	Year	Author(s)	Title
08002	2006	Sikes, N.	Cultural Resources Inventory for the City of Live Oak General Plan Update, Sutter County
08783	2006	Neuenschwander, N.	Determination of Eligibility and Effect for the Proposed Feather River Setback Levee at Star Bend Project, Sutter County
08954	2007	Grant, J.	Cultural Resources Report for Geotechnical Borings along the Feather River, Sutter Bypass, and Wadsworth Canal
09539	2008	Leach-Palm, L. et al.	Cultural Resources Inventory of Caltrans District 3 Rural Conventional Highways
09954	2008	Berg, J.	Cultural Resources Inventory for the Pease-Marysville 60kV Transmission Line Project
10202	2008	Jensen, S.	Archaeological Inventory for the Proposed Live Oak Riverfront Boat Park Boat Ramp Project
10203	2008	Jensen, S.	Archaeological Inventory for the Proposed Gridley Boat Ramp Project

FERC = Federal Energy Regulatory Commission

MGD = million gallons per day

kV = kilovolt

### I.3 Native American ~~Correspondence~~ Consultation

As part of the identification efforts for cultural resources, ICF staff requested a list of Native American contacts from the Native American Heritage Commission (NAHC) and a search of the Sacred Lands File maintained by the NAHC. The NAHC responded by letter on March 22, 2012, by providing a list of contacts and indicating that there are no resources identified for the project area in the Sacred Lands File. ICF contacted all parties identified in the NAHC list by letter on September 28, 2012.

USACE has consulted with tribes that are culturally affiliated with the areas where work will occur, as described in Chapter 3.17. The United Auburn Indian Community has provided information regarding cultural resources that may be affected by the alternatives.

### I.4 Identified Resources Affected by the Action Alternatives

This section of this appendix provides an overview of the identified (currently known) resources that may be affected by the action alternatives. Additional resources may be identified through inventory efforts, including sampling for sites that are buried or otherwise obscured. [m.avina1] This section has been prepared to provide factual basis describing why these resources are likely to be historical resources under the California Environmental Quality Act (CEQA) and historic properties under the NRHP. This section also provides description of the probable effects of the project and the reasons why preservation in place of all potentially eligible resources may not be feasible.

## I.4.1 Archaeological Resources

### I.4.1.1 CA-BUT-52

This resource consists of a prehistoric “mound” site approximately 91 meters in diameter with midden. Midden consists of organic material deposit during human habitation that is frequently useful in archaeological research for analysis of subsistence and settlement patterns. Mound sites consist of sites that were originally elevated above grade and formed low mounds relative to the surrounding landscape. Burials are also typically found in mound sites. Because any remaining portions of the site may be useful in providing data for archaeological research and because burials frequently contain grave goods that may be used to identify specific time periods of habitation, this site may have both integrity and data potential (NRHP Criterion D/~~California Register of Historical Resources (CRHR) Criterion 4~~). For these reasons it may qualify as an ~~historical resource and~~ historical property.

### I.4.1.2 CA-BUT-53

This resource consists of a prehistoric midden and mound site approximately 61 meters in diameter. The site contains human burials, projectile points (*arrowheads*), ground stone artifacts, and shell ornaments. Because any remaining portions of the site may be useful in providing data for archaeological research (NRHP Criterion D/~~CRHR Criterion 4~~) and because burials frequently contain grave goods that may be used to identify specific time periods of habitation, this site may have both integrity and data potential. For these reasons it may qualify as an ~~historical resource and historic property~~ historical property.

#### ~~CA-BUT-465~~

~~The resource consists of a feature of axe-cut trees, tailings, a road, and other features within an expansive landscape composed of intact and historic-era mined tailings, levees, ponds, original landscape remnants, and other features made between 1898 and 1952 (the larger resource is recorded as CA-BUT-1345). This resource is associated with the significant historical theme of gold mining. This resource is also potentially useful in studying historic-era activity associated with this theme (NRHP Criterion D/CRHR Criterion 4). Because the resource is expansive it likely has at least some portions with the ability to convey this significance. For these reasons it may qualify as an historical resource and historical property.~~

### I.4.1.3 I.4.1.4 CA BUT-496

This resource consists of a prehistoric site with burials, measuring approximately 27 meters by 46 meters. Identified materials include *Olivella* beads, *Haliotis* pendants, project points, ear spools, and net weights. Because any remaining portions of the site may be useful in providing data for archaeological research (NRHP Criterion D) and because cultural material noted on the site may be used to identify specific time periods of habitation, this site may have both integrity and data potential. For these reasons it may qualify as an historic property.

### I.4.1.4 CA-BUT-1123

This resource consists of a prehistoric deposit spanning 90 meters with human remains and “invertebrate fragments.” Flaked stone tools and ground stone artifacts were noted. If the site

retains portions with integrity and useful information it may be valuable for research domains (NRHP Criterion D)/~~CRHR Criterion 4~~). For these reasons it may qualify as an historical resource and ~~historic property~~historical property.

#### **I.4.1.5 CA-BUT-1345/CA-BUT-465**

The resource consists of a feature of axe-cut trees, tailings, a road, and other features within an expansive landscape composed of intact and historic-era mined tailings, levees, ponds, original landscape remnants, and other features made between 1898 and 1952. The resource consists of an expansive landscape composed of intact and historic-era mined tailings, ~~similar to CA-BUT-465 that is continuous between the resources recorded as CA-BUT-1345 and 435.~~ This resource is associated with the significant historical theme of gold mining. This resource is also potentially useful in studying historic-era activity associated with this theme (NRHP Criterion D)/~~CRHR Criterion 4~~). Because the resource is expansive it likely has at least some portions with the ability to convey this significance. For these reasons it may qualify as an ~~historical resource and historic property~~historical property.

#### **I.4.1.6 CA-SUT-5**

This resource consists of a midden and mound site measuring approximately 30 meters in diameter. The deposit contains midden, glass and clamshell beads, a bone awl, and a pestle (a ground stone implement). Because any remaining portions of the site may be useful in providing data for archaeological research and because burials frequently contain grave goods that may be used to identify specific time periods of habitation, this site may have both integrity and data potential (NRHP Criterion D)/~~CRHR Criterion 4~~). For these reasons it may qualify as an ~~historical resource and historic property~~historical property.

#### **I.4.1.7 CA-SUT-10**

This resource consists of a midden and mound site measuring approximately 60 meters in diameter. The deposit contains midden, burials, shell beads, and shell pendants. Because any remaining portions of the site may be useful in providing data for archaeological research and because burials frequently contain grave goods that may be used to identify specific time periods of habitation, this site may have both integrity and data potential (NRHP Criterion D)/~~CRHR Criterion 4~~). For these reasons it may qualify as an ~~historical resource and historic property~~historical property.

#### **I.4.1.8 CA-SUT-20**

This prehistoric resource consists of a midden deposit of uncertain dimensions, with shell beads and ornaments and burials. Because these materials are useful in prehistoric research (NRHP Criterion D)/~~CRHR Criterion 4~~) and because the portions of the site may remain with integrity to provide this utility, this site may qualify as an ~~historical resource and historic property~~historical property.

#### **I.4.1.9 CA-SUT-77**

This resource contains midden soil, with shell, bone, flaked stone debris, in a deposit spanning 10 meters in diameter. Other noted artifacts include shell beads, a projectile point, and a bone ornament. The identified deposit is consistent with expectations for a habitation site with a burial component such remains and documented cultural constituents may be useful in prehistoric

research (NRHP Criterion D/~~CRHR Criterion 4~~). Because portions of the site may remain with integrity to provide this utility, this site may qualify as an ~~historical resource and historic property~~ historical property.

#### **I.4.1.10 Previously Unrecorded Prehistoric Village Site**

This resource consists of a prehistoric village site identified by the United Auburn Indian Community. Because it is likely to have habitation debris and burials, both of which are usually found in village sites; it likely has the ability to contribute information useful in research. Because it is expansive, it likely contains some remaining portions with integrity. For these reasons it likely qualifies as an historic property. It may have significance under other NRHP eligibility criteria as well.

### **I.4.2 Built Environment Resources**

#### **I.4.2.1 Residential Historic District in Yuba City (Potentially NRHP- and CRHR-eligible)**

There are 11 residential buildings located in the project area along 2nd Street in Yuba City that are associated with a potential NRHP- ~~eligible and CRHR-eligible~~ historic district. The boundary for the potential residential historic district would include the east and west sides of 2nd Street between Garden Highway and C Street, and possibly extend a few blocks west of this area. The area appears eligible for listing in the NRHP under Criteria A and C (~~CRHR Criteria 1 and 3~~), at the local level of significance in the areas of residential community development and architecture. The period of significance is approximately circa 1870 to approximately 1940 for the district and its contributing resources. The district comprises Yuba City's earliest collection of residential buildings and highlights architectural styles such as Italianate, Craftsman, and Queen Anne Victorian. Table I-3 below describes 11 residential buildings located in the area of potential effects (APE) that are individually eligible and those that would be contributing resources to the potential historic district.

**Table I-3. Contributing Elements of the Yuba City Residential Historic District**

APN	Address	Resource Name if Applicable	Architectural Style	Eligibility Criteria*
52-552-007	329 2nd Street	William O'Banion House	Italianate	Eligible under NRHP Criteria A and C individually and as a potential historic district contributor
52-552-006	335 2nd Street	NA	Craftsman	Eligible under NRHP Criteria A and C as a potential historic district contributor
52-552-005	341 2nd Street	NA	Craftsman	Eligible under NRHP Criteria A and C as a potential historic district contributor
52-552-004	349 2nd Street	NA	Craftsman	Eligible under NRHP Criteria A and C as a potential historic district contributor
52-552-003	355 2nd Street	NA	Prairie	Eligible under NRHP Criteria A and C as a potential historic district contributor
52-552-002	365 2nd Street	NA	Prairie	Eligible under NRHP Criteria A and C individually and as a potential historic district contributor
52-552-001	373 2nd Street	NA	Craftsman	Eligible under NRHP Criteria A and C as a potential historic district contributor
52-535-007	379 2nd Street	McGruder House	Queen Anne Victorian	Eligible under NRHP Criteria A and C individually and as a potential historic district contributor
52-535-006	407 2nd Street	NA	Queen Anne Victorian	Eligible under NRHP Criteria A and C as a potential historic district contributor
52-535-005	413 2nd Street	G.W. Carpenter House	Queen Anne Victorian	Eligible under NRHP Criteria A and C individually and as a potential historic district contributor
52-535-004	423 2nd Street	Thomas D. Boyd House	Neoclassical	Eligible under NRHP Criteria A and C individually and as a potential historic district contributor

NA = not applicable.

NRHP = National Register of Historic Places.

\*Resources are also CRHR-eligible under parallel CRHR criteria.

#### I.4.2.2 Sutter County Office Building/Courthouse—APN 52-534-001

The Sutter County Office Building located at 463 2nd Street was built in 1953 and designed by master architect Harry J. Devine. The building and associated detached garage appears to meet the eligibility criteria for listing in the NRHP ~~and CRHR under Criterion C and Criterion 3, respectively,~~ as an excellent example of an International-style government building in Sutter County.

#### I.4.2.3 Masonic Temple—APN 52-516-004

The Masonic Temple located at 501 2nd Street in downtown Yuba City appears eligible for listing in NRHP ~~and CRHR under Criterion C and Criterion 3, respectively,~~ at the local level of significance as an excellent example of an early reinforced concrete building constructed in the Mission Revival style.



#### **I.4.2.4 Gridley Workers Camp Historic District—APN 024-220-030**

The Gridley Workers Camp Historic District is located at 850 East Gridley Road in the city of Gridley. The contributing resources associated with the historic district are 25 wood frame units constructed in 1938 by the Farm Security Administration. The district is eligible for listing in the NRHP ~~and CRHR~~ under Criterion A ~~and Criterion 1, respectively,~~ for its association with the Farm Security Administration's efforts during the Great Depression to address the health and housing crisis. The district is also eligible for the NRHP ~~and CRHR~~ under Criterion C ~~and CRHR Criteria 3, respectively,~~ as an excellent example of Farm Security Administration's vernacular architecture and landscape design.

#### **I.4.2.5 Feather River Levee**

The Feather River Levee is eligible for the NRHP ~~and CRHR~~ under Criterion A ~~and Criterion 1, respectively,~~ for its association with advances in flood control in California.

#### **I.4.2.6 P-1340 Sutter Butte Canal**

The Sutter Butte Canal (P-1340) appears eligible for listing in the NRHP ~~and CRHR~~ under Criterion A ~~and Criteria 1, respectively,~~ at the local level of significance for its associated with the development of agricultural irrigation in Sutter and Butte Counties.

#### **I.4.2.7 Southern Pacific Shasta Route Historic District (alignment segment and bridge)**

Contributing elements of the Southern Pacific Shasta Route Historic District (SPSRHD) are located in the APE. The historic district has been determined eligible for the NRHP under Criteria A, B, and C ~~(CRHR Criteria 1, 2, and 3)~~ with a period of significance of 1863 to 1945. Under Criterion A the district is historically associated with engineering, transportation history, economic history in California and Oregon, as well as the development of the West. The SPSRHD is also NRHP eligible under Criterion B for its association with railroad mogul E.H. Harriman. The bridges located along the route that were built according to the railroad's "Common Standard" design are also NRHP eligible under Criterion C as they represent the particular type, period and methods on construction for railroad bridges built during the period of significance. The rail alignment in the APE is approximately 2,680 feet long and includes a wooden trestle bridge that dates to 1939.

### **I.4.3 Potential Effects and Treatment**

Table I-4 identifies archaeological resources affected by the action alternatives and potential treatment options. Table I-5 lists the built environment resources affected by the action alternatives and potential treatment options.

**Table I-4. Archaeological Resources Affected by the Action Alternatives and Potential Treatment**

<u>County</u>	<u>Primary Number</u>	<u>Trinomial</u>	<u>Alt 1</u>	<u>Alt 2</u>	<u>Alt 3</u>	<u>Potential Treatment/Basis for Treatment*</u>
<u>Butte</u>	<u>P-04-52</u>	<u>CA-BUT-52</u>	<u>SE</u>	<u>SE</u>	<u>SE</u>	<u>Data Recovery/Construction Constrained by Existing Footprint</u>
<u>Butte</u>	<u>P-04-53</u>	<u>CA-BUT-53</u>	<u>SE</u>	<u>SE</u>	<u>NE</u>	<u>Data Recovery/Construction Constrained by Existing Footprint</u>
<u>Butte</u>	<u>P-04-465 (also P-04-1345)</u>	<u>CA-BUT-465</u>	<u>SE</u>	<u>SE</u>	<u>SE</u>	<u>Data Recovery/Construction Constrained by Existing Footprint</u>
<u>Butte</u>	<u>-</u>	<u>CA-BUT-496</u>	<u>SE</u>	<u>SE</u>	<u>SE</u>	<u>Data Recovery/Construction Constrained by Existing Footprint</u>
<u>Butte</u>	<u>P-04-1123</u>	<u>CA-BUT-1123</u>	<u>SE</u>	<u>SE</u>	<u>SE</u>	<u>Data Recovery/Construction Constrained by Existing Footprint</u>
<u>Sutter</u>	<u>P-51-05*</u>	<u>CA-SUT-5*</u>	<u>SE</u>	<u>SE</u>	<u>NE</u>	<u>Data Recovery/Construction Constrained by Existing Footprint</u>
<u>Sutter</u>	<u>P-51-10</u>	<u>CA-SUT-10</u>	<u>SE</u>	<u>SE</u>	<u>SE</u>	<u>Data Recovery/Construction Constrained by Existing Footprint</u>
<u>Sutter</u>	<u>P-51-20**</u>	<u>CA-SUT-20</u>	<u>NE</u>	<u>NE</u>	<u>NE</u>	<u>Data Recovery/Construction Constrained by Existing Footprint</u>
<u>Sutter</u>	<u>P-51-77</u>	<u>CA-SUT-77</u>	<u>SE</u>	<u>SE</u>	<u>SE</u>	<u>Data Recovery/Construction Constrained by Existing Footprint</u>
<u>Sutter</u>	<u>-</u>	<u>[previously unrecorded village site]***</u>	<u>SE</u>	<u>SE</u>	<u>SE</u>	<u>Data Recovery/Construction Constrained by Existing Footprint</u>
<u>Alt = alternative; SE = significant effect, NE = no effect, effect identified if mapped location occurs within project boundary and coincides with ground disturbing activity.</u>						
<u>* CA-SUT-5 has two mapped locations, the first occurs in the disturbance footprint of Alternative 1 and 2 but not 3, the second falls outside all three alternatives.</u>						
<u>** Occurs in Reach 15: no work proposed in this reach.</u>						
<u>*** Previously unrecorded village site identified by the United Auburn Indian Community.</u>						

**Table I-5. Built Environment Resources Affected by the Action Alternatives/Potential Treatment**

APN	Address	Alternative 1 Effect	Alternative 1 Probable Treatment Plan Options	Alternative 2 Effect	Alternative 2 Probable Treatment Plan Options	Alternative 3 Effect	Alternative 3 Probable Treatment Plan Options
<b><u>Yuba City Properties</u></b>							
<u>52-552-007</u>	<u>329 2nd Street</u>	<u>SE</u>	<u>HABS, R, O</u>	<u>SE</u>	<u>HABS, R, O</u>	<u>NS</u>	<u>N/A</u>
<u>52-552-006</u>	<u>335 2nd Street</u>	<u>SE</u>	<u>HABS, R, O</u>	<u>SE</u>	<u>HABS, R, O</u>	<u>NS</u>	<u>N/A</u>
<u>52-552-005</u>	<u>341 2nd Street</u>	<u>SE</u>	<u>HABS, R, O</u>	<u>SE</u>	<u>HABS, R, O</u>	<u>NS</u>	<u>N/A</u>
<u>52-552-004</u>	<u>349 2nd Street</u>	<u>SE</u>	<u>HABS, R, O</u>	<u>SE</u>	<u>HABS, R, O</u>	<u>SE</u>	<u>HABS, DR</u>
<u>52-552-003</u>	<u>355 2nd Street</u>	<u>SE</u>	<u>HABS, R, O</u>	<u>SE</u>	<u>HABS, R, O</u>	<u>SE</u>	<u>HABS, DR</u>
<u>52-552-002</u>	<u>365 2nd Street</u>	<u>SE</u>	<u>HABS, R, O</u>	<u>SE</u>	<u>HABS, R, O</u>	<u>SE</u>	<u>HABS, DR</u>
<u>52-552-001</u>	<u>373 2nd Street</u>	<u>SE</u>	<u>HABS, R, O</u>	<u>SE</u>	<u>HABS, R, O</u>	<u>NS</u>	<u>N/A</u>
<u>52-535-007</u>	<u>379 2nd Street</u>	<u>SE</u>	<u>HABS, R, O</u>	<u>SE</u>	<u>HABS, R, O</u>	<u>NS</u>	<u>N/A</u>
<u>52-535-006</u>	<u>407 2nd Street</u>	<u>SE</u>	<u>HABS, R, O</u>	<u>SE</u>	<u>HABS, R, O</u>	<u>NS</u>	<u>N/A</u>
<u>52-535-005</u>	<u>413 2nd Street</u>	<u>SE</u>	<u>HABS, R, O</u>	<u>SE</u>	<u>HABS, R, O</u>	<u>NS</u>	<u>N/A</u>
<u>52-535-004</u>	<u>423 2nd Street</u>	<u>SE</u>	<u>HABS, R, O</u>	<u>SE</u>	<u>HABS, R, O</u>	<u>SE</u>	<u>HABS, DR, O</u>
<u>52-534-001</u>	<u>463 2nd Street</u>	<u>SE</u>	<u>HABS, O</u>	<u>SE</u>	<u>HABS, O</u>	<u>SE</u>	<u>HABS, O</u>
<u>52-516-004</u>	<u>501 2nd Street</u>	<u>SE</u>	<u>HABS, O</u>	<u>SE</u>	<u>HABS, O</u>	<u>NE</u>	<u>N/A</u>
<u>24-220-030</u>	<u>850 E. Gridley Rd.</u>	<u>NS</u>	<u>N/A</u>	<u>NS</u>	<u>N/A</u>	<u>NE</u>	<u>N/A</u>
<b><u>Other Properties</u></b>							
<u>Feather River Levee</u>	<u>Entire APE</u>	<u>SE</u>	<u>O</u>	<u>SE</u>	<u>O</u>	<u>SE</u>	<u>O</u>
<u>P-1340, Sutter Butte Canal</u>	<u>Ends near Levee Rd &amp; Clark Rd</u>	<u>SE</u>	<u>O</u>	<u>SE</u>	<u>O</u>	<u>SE</u>	<u>O</u>
<u>Southern Pacific Shasta Route Historic District</u>	<u>Near Live Oak Blvd and Pease Road (north of Yuba City)</u>	<u>SE</u>	<u>HAER</u>	<u>SE</u>	<u>HAER</u>	<u>SE</u>	<u>HAER</u>
<u>SE = significant effect; NS = not significant; NE = no effect; HABS = documentation per Historic American Buildings Survey; HAER = documentation per Historic American Engineering Record; R = relocation of CRHR-eligible building(s); DR = documentation of 2nd St Historic District with an NRHP nomination form; O = Other resource specific mitigation measure defined in the Built Environment Treatment Plan including but not limited to interpretive displays, online resources, or historic contexts.</u> <u>N/A = Not applicable—no treatment necessary.</u>							

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Appendix J

**Programmatic Agreement among the  
U.S. Army Corps of Engineers,  
Sutter Butte Flood Control Agency, and the  
California State Historic Preservation Officer  
Regarding the Feather River West Levee Project  
Sutter and Butte Counties, California**

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**PROGRAMMATIC AGREEMENT  
AMONG THE  
U.S. ARMY CORPS OF ENGINEERS, SUTTER BUTTE FLOOD CONTROL AGENCY, AND  
THE CALIFORNIA STATE HISTORIC PRESERVATION OFFICER  
REGARDING THE  
FEATHER RIVER WEST LEVEE PROJECT  
SUTTER AND BUTTE COUNTIES, CALIFORNIA**

**WHEREAS**, the Sutter Butte Flood Control Agency (SBFCA) proposes to design and construct the Feather River West Levee Project (Project), to reduce flood risk in the Sutter Basin, which includes portions of Sutter and Butte Counties in the Sacramento Valley of California, and;

**WHEREAS**, this project requires permits from the U.S. Army Corps of Engineers (Corps) to modify federal levees under Section 14 of the River and Harbors Act (33 US Code Section 408) and a permit to discharge fill to waters of the United States under Section 404 of the Clean Water Act (33 US Code Section 1344), and;

**WHEREAS**, the project is an undertaking as defined under Section 106 of the National Historic Preservation Act (NHPA, 16 US Code Section 470f) and the implementing regulations (33 CFR Section 800.16[y]) because the project requires federal permitting, and;

**WHEREAS**, the Corps is the lead federal agency for Section 106 compliance per 36 CFR Section 800.2(a)(2) for the project, and;

**WHEREAS**, the Corps may not be able to resolve adverse effects by preparing a Memorandum of Agreement under 36 CFR Section 800.2(a)(2) in advance of 408 authorization and 404 permitting; and;

**WHEREAS**, the Section 106 regulations allow a federal agency to phase identification and evaluation of historic properties if provided for in a programmatic agreement (36 CFR Section 800.4(b)(2)), and;

**WHEREAS**, the Corps has consulted with and will continue to consult with both federally recognized and other Native American tribes, and the public, and;

**WHEREAS**, the Corps has provided notice to the Advisory Council on Historic Preservation (ACHP) and by letter dated July 18, 2012, the ACHP has declined to participate in this programmatic agreement (Agreement), and;

**WHEREAS**, the Corps has consulted with the State Historic Preservation Officer (SHPO) and will continue to consult with the SHPO and provide the SHPO the opportunity to review documents covered by this Agreement, and;

**WHEREAS**, SBFCA has invited the Central Valley Flood Protection Board (CVFPB) to review and participate as a concurring party to this Agreement because the CVFPB must approve alterations to the project levees per California Water Code Section 8710,

**NOW THEREFORE**, the Corps, SHPO, SBFCA and the Central Valley Flood Protection Board (CVFPB) agree that the following stipulations will be implemented for all portions of the project, in accordance with this Agreement and the Inventory and Historic Property Treatment Plan (Plan) that will be appended to this Agreement after execution.

## **STIPULATIONS**

### **Stipulation I. Applicability and Scope, Relationship to Other Agreements**

#### **(A) Applicability, Scope, and Method of Implementation**

1. This Agreement applies to the project because the project is an undertaking within the meaning of Section 106 of the NHPA, as defined in 36 CFR Section 800.16(y).
2. Although other state and local agencies may issue permits and otherwise provide assistance for portions of the project covered by this Agreement, the Corps remains the lead federal agency responsible for ensuring compliance with all Section 106 responsibilities under the provisions of this Agreement.
3. This Agreement does not negate or supersede any agreements in effect between the Corps and Indian tribes at the time the Agreement is executed, nor does it negate or supersede any agreement documents executed between the Corps and SHPO pursuant to 36 CFR Part 800, with amendments, effective August 5, 2004.
4. SBFCA assumes responsibility for the contracting and supervision of technical cultural resources management work performed to satisfy the stipulations of this Agreement and Section 106 of the NHPA. SBFCA understands that all substantive management decisions and completion of Section 106 milestones are subject to the review, approval, and ultimate discretion of the Corps.

#### **(B) Conflicts with Other Agreement Documents**

1. It is possible that a conflict may arise between this Agreement and other agreement documents that govern associated undertakings. The Corps shall endeavor to avoid conflicts with other agreement documents, but in the event of a direct conflict, the Corps shall determine which standards govern and how to proceed. For the Project, SBFCA will only be responsible for implementing the terms of this Agreement.

### **Stipulation II. Definitions and Standards**

1. The definitions set forth at 36 CFR Section 800.16 are applicable throughout this Agreement.
2. "Plan" as used in this document, refers to the Inventory and Historic Property Treatment Plan. This document will describe methodology covering inventory methods, recording of resources, evaluation and treatment of identified resources, curation of recovered materials, and other technical specifications necessary to implement this Agreement. This Plan may be amended separately from the Agreement but cannot revise the substantive requirements of this Agreement.



3. Professional Qualifications: All inventory and evaluation activities prescribed by this Agreement shall be carried out under the authority of the Corps by or under the direct supervision of a person or persons meeting, at a minimum, the Secretary of the Interior's Professional Qualifications Standards (48 FR 44738–44739) in the appropriate disciplines. Nothing in this stipulation, however, may be interpreted to preclude the Corps, SBFCA, or any agent or contractor thereof from using the services of persons who do not meet the Secretary of Interior's Professional Qualifications Standards if they are supervised by an individual who does meet these standards.

### **Stipulation III. Notices and Communications**

#### **(A) Methods of Transmittal**

1. The signatory parties agree that reports and deliverables such as inventory reports, findings of effect, and treatment plans may be submitted electronically to signatory parties for review. All decisions from SHPO, such as concurrence in evaluations, findings of effect, and adequacy of treatment, shall be delivered in hard copy and retained by SBFCA and the Corps.

### **Stipulation IV. Identification of Historic Properties**

#### **(A) Phasing of Identification, Evaluation, Determination of Adverse Effects, and Resolution of Adverse Effects on Historic Properties**

1. The Corps will perform, or ensure that SBFCA performs, the following steps for discrete phases or activities identified by SBFCA and the Corps, according to the construction schedule or timeline of the larger project.

2. For each phase or activity, the Corps and SBFCA shall define an area of potential effects (APE), complete an inventory of the APE, evaluate identified resources for the National Register of Historic Places (NRHP), make a finding of effect, and develop treatment methods to resolve adverse effects. The Corps will typically submit separate reports for the inventory (including evaluation and findings of effect) and treatment. For example, where identified properties require property-specific treatment that requires consideration and collaboration among consulting parties, the Corps would typically submit the inventory, evaluation, and finding of effect for the APE in one report and submit treatment in a separate later deliverable. All reports prepared under this stipulation shall be subject to the review and approval requirements defined below as part of this stipulation (IV[F]).

#### **(B) Definition of the Area of Potential Effects for Each Phase or Activity**

1. The Corps has conducted initial consultation with the SHPO regarding the APE. For each activity or phase dependent on federal authorization or permits from the Corps, the Corps and SBFCA shall define a phase-specific APE, in consultation with the SHPO. The APE shall consist of the construction footprint and any ancillary areas, including but not limited to staging areas, haul roads, utility relocations, and mitigation sites for each phase or activity identified by SBFCA, as well as the surrounding vicinity where the phase-specific footprint may result in direct or indirect effects on historic properties, based upon the nature of the activity and the potentially affected resources, subject to the review and approval of the Corps prior to initiation of cultural resource inventories. The APE will determine the location where the

Corps shall conduct inventory efforts, evaluate identified resources, make a finding of effect, and develop treatment as defined below (Stipulation IV[C] through IV[E]).

### **(C) Inventory of the Area of Potential Effects**

1. The Corps and SBFCA, in consultation with the SHPO and any interested Native American tribes, shall complete an inventory of cultural resources within each phase or activity-specific APE. The inventory shall use efforts appropriate to the kind and frequency of cultural resources that may be encountered, consistent with the methodology of the plan. The inventory will cover the entire APE and shall be designed to identify historic properties prior to construction, to the extent feasible.

2. Based upon the inventory of each phase or activity-specific APE, the Corps may require construction monitoring. The Corps' decision shall be based upon relevant factors such as the density and distribution of identified resources, geomorphology, recommendations from Native Americans (including both federally recognized tribes and other individuals and organizations), historic maps, and other data. Monitoring efforts shall conform to the requirements of the plan with any necessary modifications made based upon the results of the inventory effort.

### **(D) Evaluation and Finding of Effect**

1. For all identified cultural resources, the Corps and SBFCA shall prepare an evaluation for the NRHP, consistent with the methods and standards in the Plan. The Corps shall apply the criteria for evaluation for the NRHP provided in 36 CFR Section 60.4. The Corps and SBFCA shall also include a finding of effect in the inventory and evaluation report, or in a separate deliverable, by applying the criteria of adverse effect in 36 CFR Section 800.5(a)(1).

### **(E) Resolution of Adverse Effects**

1. For all identified historic properties that would be adversely affected by the project, the Corps and SBFCA shall develop treatments to resolve adverse effects. Treatment may consist of avoidance, documentation, data recovery excavations, preservation in place, or other methods identified by the Corps. The Corps may use treatment methods provided in the Plan or may develop, in consultation with the SHPO, interested Native American tribes, or other stakeholders as appropriate, property-specific treatment. If treatment methods described in the Plan are adequate, the Corps may simply refer to those methods in the inventory report, finding of effect document, or stand-alone treatment plan and incorporate them by reference without repeating the full text of the relevant treatment methods.

### **(F) Review of Reports**

1. Reports describing the results of inventory, evaluation, findings of effect and proposed treatment shall be submitted to the SHPO for review. The Corps shall also distribute reports to signatories, concurring parties, and other interested parties upon request. SHPO and other reviewing parties shall have 30 calendar days to review reports, starting on the day the report is transmitted electronically or the date it was received if sent by mail or other physical means. If SHPO does not respond within 30 calendar days, the Corps may proceed with the proposed actions. If SHPO responds with comments, the Corps shall incorporate the comments and provide a revised copy to SHPO and other consulting parties for further review. The SHPO shall have 15 calendar days from the date the revised report is received to review

revised reports prepared under this stipulation. If the SHPO does not respond within this time frame, the Corps may implement the proposed actions in the report and construction dependent upon those findings, if any.

2. Every report and associated management milestone performed under this stipulation shall be deemed complete and adequate when the SHPO provides written concurrence by e-mail or letter.

#### **(G) Ongoing Consultation with Native American Individuals and Organizations**

1. The Corps has consulted with the Native American community during development of this Agreement document. During management milestones, such as completion of inventory reports, resource evaluations, findings of effect, and development and implementation of treatment, the Corps shall consult with the Native American individuals and organizations that may attach cultural significance to resources affected by relevant undertakings. The Corps will consider the results of these consultations and attempt to incorporate and follow suggestions regarding management of cultural resources.

#### **(H) Annual Reports**

1. At the end of every calendar year during which management activities are performed under this Agreement, SBFCA and the Corps shall prepare and deliver to the SHPO a memorandum summarizing management activities and findings for that calendar year.

### **Stipulation V. Monitoring and Inadvertent Discoveries and Unanticipated Effects**

#### **(A) Workforce Training and Construction Monitoring**

1. The Corps or qualified archaeologists retained by SBFCA will provide training to construction personnel regarding proper procedures and conduct in the event that archaeological materials are encountered during construction. This training will cover both the identification of resources that may be encountered during construction and procedures to be followed in the event of a discovery.

2. SBFCA shall conduct monitoring of construction where the Corps, in consultation with the SHPO, determines it is necessary to ensure that identified resources are protected or where there is a high sensitivity for previously unidentified resources. These determinations will be described in each phase or activity-specific inventory report and the plan.

#### **(B) Discovery Procedures for Resources Encountered During Construction**

1. If cultural resources are discovered during construction, all construction shall immediately stop within 100 ft (30 m) of the discovery, the location of the discovery will be marked for avoidance, and efforts will be made to prevent inadvertent destruction of the find. The contractor must notify the Corps and SBFCA (if no Corps or SBFCA representatives are on location). The Corps shall determine whether the discovery is a potential NRHP-eligible resource per the criteria in 36 CFR Section 60.4. If the Corps determines that the discovery is not a potentially NRHP-eligible resource, the discovery will be documented and construction may proceed at the direction of the Corps.

2. If the Corps determines that human remains have not been encountered, that the discovery is not an isolated find, and that the discovery may be eligible for the NRHP, the Corps will notify the SHPO and other relevant parties within 48 hours of the discovery. Notification should include a description of the discovery, the circumstances leading to its identification, and recommendations for further action. Where feasible, the notification will also include a tentative NRHP-eligibility discussion per 36 CFR Section 60.4 and a finding of effect per 36 CFR Section 800.5(a)(1). If the resource cannot be evaluated based upon available evidence (for example, where test excavation is required), the Corps shall include a plan of action for further technical work necessary to determine the eligibility of the resource and make a finding of effect per 36 CFR Section 800.5(a)(1). Treatment shall be implemented where necessary to resolve adverse effects on inadvertently discovered historic properties. If treatment is necessary to resolve adverse effects, SBFCA and the Corps shall consult with Native American individuals and organizations that attach cultural significance to the relevant historic properties and with the SHPO prior to implementing treatment. The SHPO shall have 15 calendar days to review findings of effect and treatment plans submitted under this stipulation, when treatment is selected from the attached historic property treatment plan. When new treatment methods are developed, review shall follow Stipulation IV(F) above.

3. If human remains are present, treatment shall conform to the requirements of state law under California Health and Safety Code Section 7050.5 and Public Resources Code Section 5097.98, unless the discovery occurs on federal land. Discoveries on federal land shall conform to the requirements of the Native American Graves Protection and Repatriation Act (NAGPRA, 25 US Code Section 3001 et seq.), after complying with the requirements of California Health and Safety Code Section 7050.5, which requires notice to the County Coroner so the coroner may determine if an investigation into the cause of death is required. These legal requirements, as well as appropriate monitoring, will be described in the plan, as indicated in Attachment 2.

## **Stipulation VI. Administrative Provisions**

### **(A) Documentation Standards**

1. Written documentation of inventory, evaluations, findings of effect and treatment prescribed per this Agreement shall conform to the Secretary of the Interior's Standards and Guidelines for Archeology and Historic Preservation (48 FR 44716–44740), as well as to applicable standards and guidelines established by the State of California Office of Historic Preservation<sup>1</sup> and the plan for each phase, agreed upon by the Corps and the SHPO, in consultation with all pertinent stakeholders.

### **(B) Curation Standards**

1. The Corps shall ensure that the materials and records resulting from the activities prescribed in this Agreement are curated in accordance with 36 CFR Part 79, except where state law and regulations, including, but not limited to, California Public Resources Code Sections 5097.98 and 5097.991 for Native American human remains and associated grave goods discovered on non-federal land, require different treatment. Non-burial associated archaeological materials removed from private land shall be subject to the control of the landowner. Additionally, the disposition of any abandoned shipwrecks and

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<sup>1</sup>California State Parks, Office of Historic Preservation, *Publications and Forms*. Available: [http://ohp.parks.ca.gov/?page\\_id=1069](http://ohp.parks.ca.gov/?page_id=1069), Accessed March 5, 2013.

archaeological sites and historic resources on state lands under the jurisdiction of the California State Lands Commission (CSLC) shall be determined by CSLC as provided by California Public Resources Code Section 6313. The Corps will ensure that, to the extent permitted by applicable laws and regulations, the views of the appropriate Native American descendant group(s) are taken into consideration when decisions are made about the disposition of Native American archaeological materials and records.

### **(C) Confidentiality**

1. The signatory parties to this Agreement acknowledge that historic properties covered by this Agreement are subject to the provisions of Section 304 of the NHPA and California Government Code 6254.10 (Public Records Act) relating to the disclosure of archaeological site information and, having so acknowledged, will ensure that all actions and documentation prescribed by this Agreement maintain the confidentiality required by law.

## **Stipulation VII. Resolving Objections**

### **(A) Resolving Objections**

1. Should any party to this Agreement object in writing at any time to the manner in which the terms of this Agreement are implemented, to any action carried out or proposed with respect to implementation of the Agreement (other than the undertaking itself), or to any documentation prepared in accordance with and subject to the terms of this Agreement, the Corps shall immediately notify the other Agreement parties of the objection, request their comments on the objection within 15 days following receipt of the Corps' notification, and proceed to consult with the objecting party for no more than 30 days to resolve the objection. The Corps will honor the request of the other parties to participate in the consultation and will take any comments provided by those parties into account.

2. If the objection is resolved during the 30-day consultation period, the Corps may proceed with the disputed action in accordance with the terms of such resolution.

3. If at the end of the 30-day consultation period, the Corps determines that the objection cannot be resolved through such consultation, then the Corps shall forward all documentation relevant to the objection to the ACHP, including the Corps' proposed response to the objection, with the expectation that the ACHP will, within 45 days after receipt of such documentation:

- a. Advise the Corps that the ACHP concurs in the Corps' proposed response to the objection, whereupon the Corps will respond to the objection accordingly. The objection shall thereby be resolved; or
- b. Provide the Corps with recommendations, which the Corps will take into account in reaching a final decision regarding its response to the objection. The objection shall thereby be resolved; or
- c. Notify the Corps that the objection will be referred for comment pursuant to 36 CFR Section 800.7(c) and proceed to refer the objection and comment. The Corps shall take the resulting comments into account in accordance with 36 CFR Section 800.7(c)(4). The objection shall thereby be resolved.

4. Should the ACHP not exercise one of the above options within 45 days after receipt of all pertinent documentation, the Corps may proceed to implement its proposed response. The objection shall thereby be resolved.

5. The Corps shall take into account any of the ACHP's recommendations or comments provided in accordance with this stipulation with reference only to the subject of the objection. The Corps' responsibility to carry out all actions under this Agreement that are not the subject of the objection shall remain unchanged.

6. At any time during implementation of the measures stipulated in this Agreement, should a member of the public raise an objection in writing pertaining to such implementation to any signatory party to this Agreement, that signatory party shall immediately notify the Corps. The Corps shall immediately notify the other signatory parties in writing of the objection. Any signatory party may choose to comment in writing on the objection to the Corps. The Corps shall establish a reasonable time frame for this comment period. The Corps shall consider the objection, and in reaching its decision, the Corps will take all comments from the other signatory parties into account. Within 15 days following closure of the comment period, the Corps will render a decision regarding the objection and respond to the objecting party. The Corps will promptly notify the other signatory parties of its decision in writing, including a copy of the response to the objecting party. The Corps' decision regarding resolution of the objection will be final. Following issuance of its final decision, the Corps may authorize the action subject to dispute hereunder to proceed in accordance with the terms of that decision.

7. The Corps shall provide all parties to this Agreement, and the ACHP, if the ACHP has commented, and any parties that have objected pursuant to Section C.6 of this stipulation, with a copy of its final written decision regarding any objection addressed pursuant to this stipulation.

8. The Corps may authorize any action subject to objection under this stipulation to proceed after the objection has been resolved in accordance with the terms of this stipulation.

## **Stipulation VIII. Amendments**

### **(A) Methods for Amending this Agreement**

1. Any signatory party to this Agreement may propose that this Agreement be amended, whereupon the signatory parties will consult for no more than 30 calendar days to consider such amendment. The Corps may extend this consultation period. The amendment process shall comply with 36 CFR Section 800.6(c)(1) and Section 800.6(c)(7). This Agreement may be amended only upon the written agreement of the signatories.

### **(B) Failure to Reach Agreement**

1. If the signatory parties cannot reach agreement on proposed amendments, the dispute shall be resolved as provided for in Stipulation VII above.



## **Stipulation IX. Termination**

### **(A) Power to Terminate**

1. Only signatory parties to this Agreement may terminate this Agreement. If this Agreement is not amended as provided for in Stipulation VIII or if any signatory proposes termination of this Agreement, the party proposing termination shall notify the other signatory parties in writing, explain the reasons for proposing termination, and consult with the other parties for no more than 30 calendar days to seek alternatives to termination.
2. Should such consultation result in an agreement on an alternative to termination, the signatories shall proceed in accordance with that agreement and if necessary, shall amend this document in accordance with Stipulation VIII.
3. Should such consultation fail to result in an agreed-upon resolution by the signatory parties, the signatory party proposing termination may terminate this Agreement by promptly notifying the other signatories in writing.
4. If this Agreement is terminated hereunder, and if the Corps determines that the undertaking will nonetheless proceed, then the Corps shall comply with the requirements of 36 CFR Section 800.3–800.6, or request the comments of the ACHP, pursuant to 36 CFR Part 800.

## **Stipulation X. Duration of the Agreement**

1. Unless it is terminated pursuant to Stipulation IX of this Agreement or superseded by another agreement executed for the covered undertakings, this Agreement shall remain in effect until the Corps, in consultation with the other signatory parties to this Agreement, determines that construction, monitoring, and maintenance of all aspects of the undertakings have been completed and all terms of this Agreement have been fulfilled in a satisfactory manner, or until 10 years have passed from the date of execution of this Agreement, whichever comes first. Upon a determination by the Corps that construction, monitoring, and maintenance of all aspects of the covered undertakings have been completed and that all terms of this Agreement have been fulfilled in a satisfactory manner, or upon reaching the 10 year limit, the Corps shall notify the other signatory and concurring parties of this determination in writing, whereupon this Agreement shall be null and void.

## **Stipulation XI. Effective Date**

1. This Agreement shall take effect on the date that it has been executed by all signatory parties.

**EXECUTION** and implementation of this Agreement is evidence that the Corps has afforded ACHP a reasonable opportunity to comment on this Agreement and the associated undertakings; that the Corps has taken into account the effects of the undertakings on historic properties; and that the Corps has complied with Section 106 of the NHPA and 36 CFR Part 800 for all relevant aspects of the undertaking.

## **ATTACHMENTS AND FIGURES**

Figures 1 and 2, Project Location and Project Area

Attachment 1. Feather River West Levee Project: Description of the Project and U.S. Army Corps of Engineers Undertakings

Attachment 2. Feather River West Levee Project: Outline and Guidance for the Historic Property Treatment Plan

**SIGNATORY PARTIES:**

**U.S. Army Corps of Engineers**

By \_\_\_\_\_ Date \_\_\_\_\_  
William J. Leady, P.E.  
Colonel, U.S. Army  
District Commander

**California State Office of Historic Preservation**

By \_\_\_\_\_ Date \_\_\_\_\_  
Carol Roland-Nawi, PhD  
State Historic Preservation Officer

**Sutter Butte Flood Control Agency**

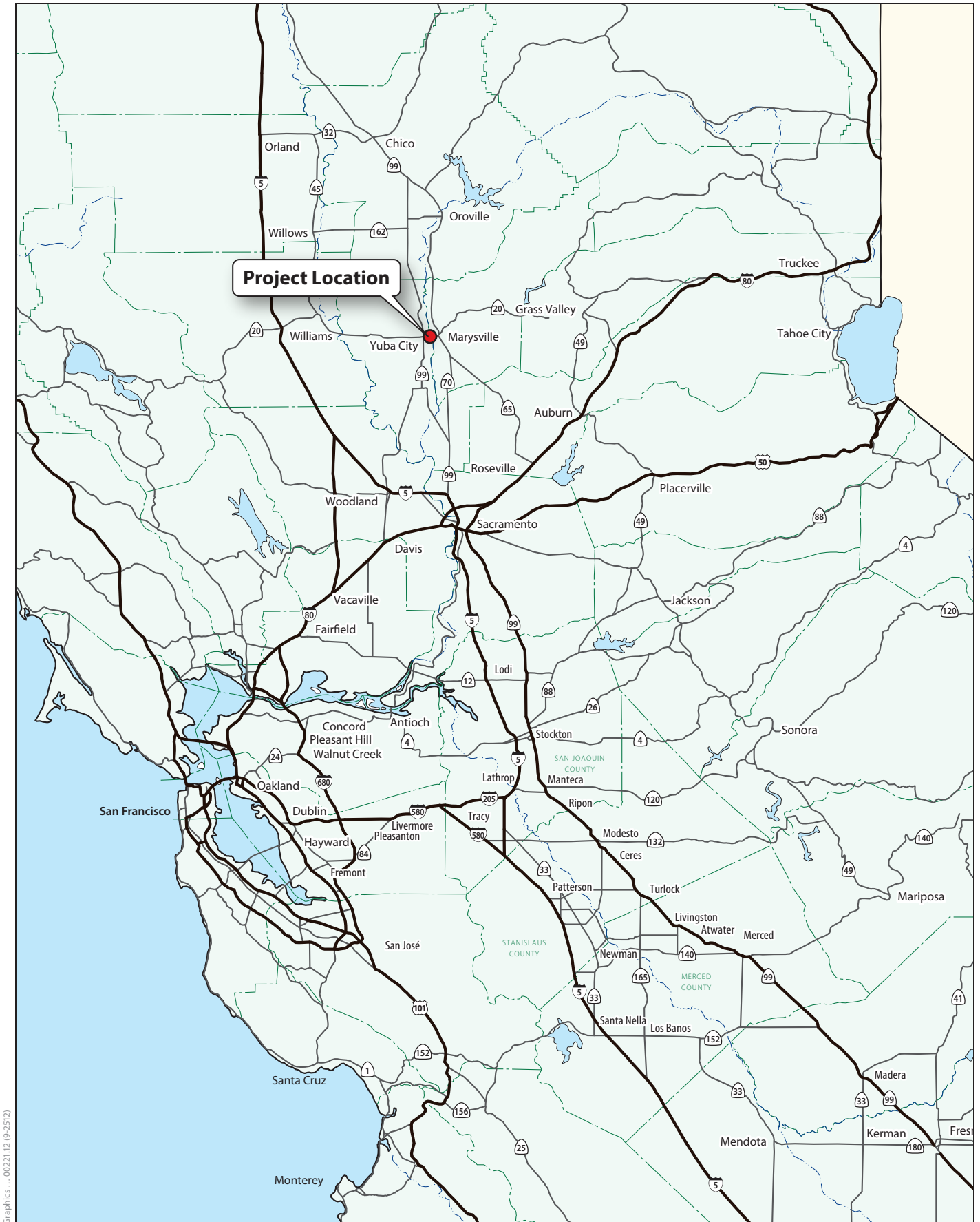
By \_\_\_\_\_ Date \_\_\_\_\_  
Michael Inamine  
Interim Executive Director  
Sutter Butte Flood Control Agency

**CONCURRING PARTIES:**

**Central Valley Flood Protection Board**

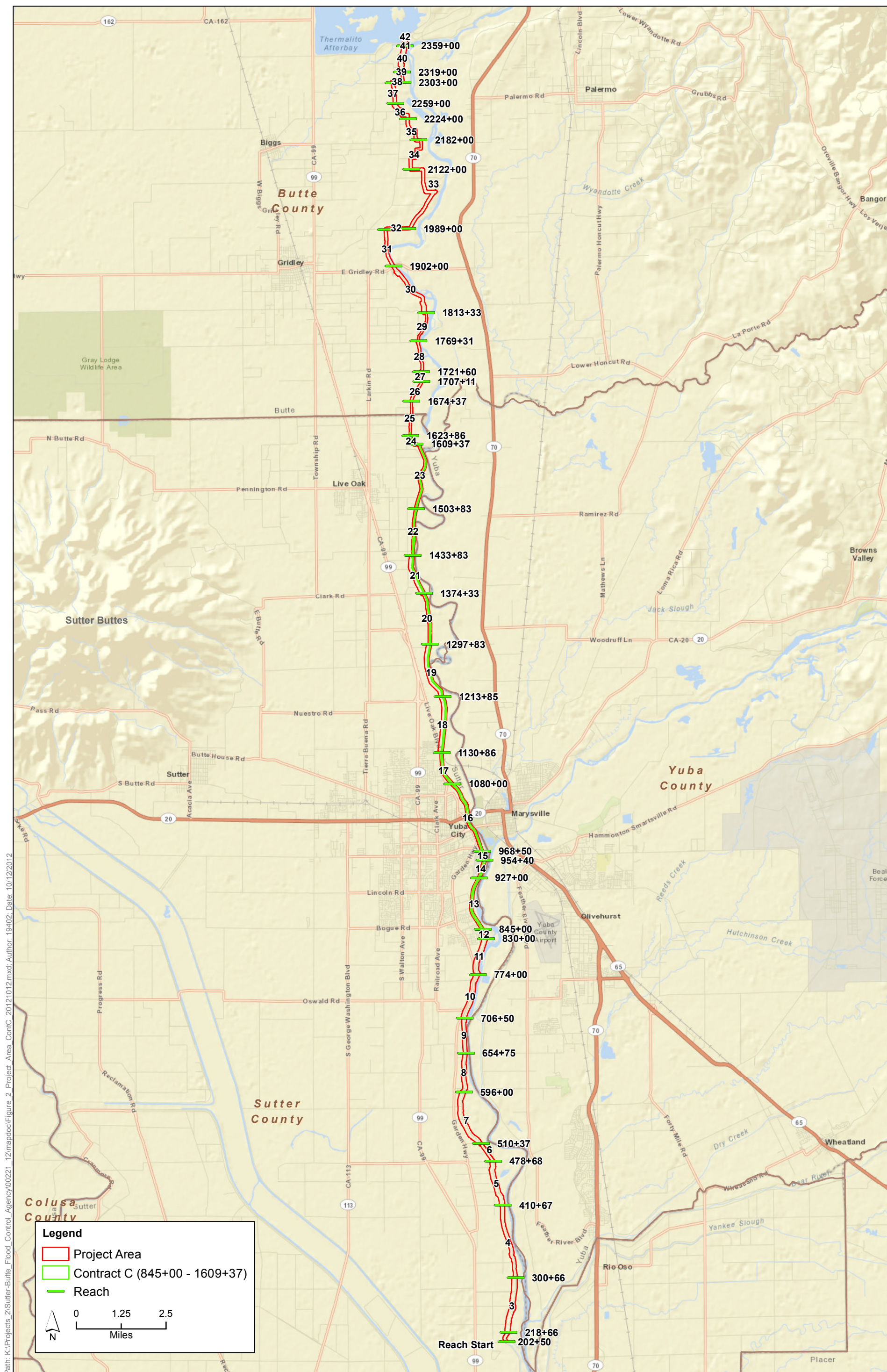
By \_\_\_\_\_ Date \_\_\_\_\_  
Jay Punia  
Executive Officer





**Figure 1**  
**Project Location**





**Figure 2**  
**Project Area**



# Appendix J, Attachment 1

## Feather River West Levee Project: Description of the Project and U.S. Army Corps of Engineers Undertakings

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### Introduction

The Sutter Butte Flood Control Agency (SBFCA) is proposing the Feather River West Levee Project (FRWLP, or project) to reduce flood risk in the Sutter Basin, which includes portions of Sutter and Butte Counties in the Sacramento Valley of California. This project would result in the construction of improvements to the Feather River West Levee on levee reaches 2–41.

Within the planning area, SBFCA's goal is to achieve a minimum of 200-year flood protection for the more urbanized areas with population centers and 100-year protection for the remaining more rural agricultural parts. A 200-year flood is a flood that has a 0.5% chance of occurring in any given year, also referred to as a 0.5% annual exceedance probability (AEP). A 100-year flood has a 1% AEP. The primary purpose of the FRWLP is to reduce flood risk in the Sutter Basin by addressing known levee deficiencies along the Feather River West Levee from Thermalito Afterbay downstream to a point approximately 4 miles upstream of the Feather River's confluence with the Sutter Bypass.

SBFCA would manage the construction of these improvements through four discrete construction contract mechanisms, spanning construction seasons from 2013 to 2015. The project vicinity and levee reaches where construction is proposed are depicted in Figures 1 and 2. These contracts and the associated levee reaches proposed for repair are summarized in Table 1.

**Table 1. Feather River West Levee Project Construction Contracts, Reaches, and Years for Construction**

Construction Contract	Project Reaches	Years for Construction
A	2–5	2014–2015
B	6–12	2014–2015
C	13–25	2013–2014
D	26–41	2014–2015

To complete the project, SBFCA must receive authorization from the U.S. Army Corps of Engineers (Corps) to modify the levee under Section 14 of the Rivers and Harbors Act (33 U.S. Code Section 408) (Section 408). SBFCA must also receive authorization from the Corps to discharge fill to waters of the United States under Section 404 of the Clean Water Act (33 U.S. Code Section 1344). Because the project associated with these permits and authorizations may affect historic properties, the Corps must comply with Section 106 of the National Historic Preservation Act (16 U.S. Code Section 470f) (Section 106).

## Description of U.S. Army Corps of Engineers Undertakings and Management Approach

The Corps anticipates reviewing and authorizing the entire project under Section 408 in early 2013. This authorization would precede the completion of 100% design drawings for all phases as well as the construction of the four contracts. Completion of the final design drawings depends on the design of ancillary project features such as borrow sites and landside utilities; these features are unrelated to the portion of the project relevant to Section 408. Because the final design would proceed in phases, the delineation of the final area of potential effects on historic properties would also proceed in phases; consequently, the Corps is using the programmatic agreement (PA) as a means of defining Corps commitments for management of historic properties and phasing that management process. The PA would document Section 106 compliance sufficiently for authorization under Section 408 and would guide the Corps in managing historic properties in a phased process that tracks with SBFCA's contracting mechanisms, construction schedule, and design constraints. The Corps will also review applications for permits to discharge fill under Section 404 of the Clean Water Act; the PA provides a means of documenting Section 106 compliance for these permits.

## Project Description

The project would be completed in the Sutter Basin. Located in north-central California in Sutter and Butte Counties, the Sutter Basin is part of the Sacramento River Flood Control Project (SRFCP). This elongated, irregularly shaped basin covers about 326 square miles; it is approximately 43 miles long north to south and up to 14 miles wide east to west and is roughly bounded by the Feather River (to the east), Cherokee Canal, the Sutter Buttes, and Sutter Bypass (to the west). Floodwaters potentially threatening the basin originate in the Feather River watershed or the upper Sacramento River watershed above Colusa Weir. These waterways have drainage areas of 5,921 and 12,090 square miles, respectively. Communities in the basin include Yuba City, Biggs, Gridley, Live Oak, and Sutter.

The project is focused on the corridor along the Feather River West Levee from Thermalito Afterbay to a point approximately 4 miles north of the Sutter Bypass. This corridor is roughly 500 feet toward the land side of the existing levees and 100 feet toward the water side. This corridor was determined as the area in which levee improvements, such as seepage berms, stability berms, relief wells, setback levees, erosion protection, and slurry cutoff walls, are likely to be made. The corridor is approximately 41 miles long, divided into 41 relatively homogeneous reaches for ease of describing existing conditions, proposed actions, the affected environment, and potential environmental effects. (Note that this number is coincidental and one reach does not consistently correspond to a length of 1 mile; additionally, Reach 1 is not a part of the project.) The project area would also include borrow/spoil sites or project mitigation sites outside this corridor.

The affected area generally includes the 40+ miles of the Feather River West Levee from the Thermalito Afterbay to a point approximately 4 miles north of the Sutter Bypass. Along this linear area, open-water habitats include the river, ponds, and canals. Small ditches that provide open-water habitat for wildlife are also present in the affected area. Smaller agricultural canals associated with rice and other flooded crops are also present in the project area. Prehistoric cultural resources are documented in the project footprint and vicinity on both the landside and waterside of the Feather River West Levee. Historic-era archaeological and built environment resources are largely confined to the landside uplands but have the potential to occur on both the landside and waterside.

## Appendix J, Attachment 2

# Feather River West Levee Project: Outline and Guidance for the Historic Property Treatment Plan

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1. Introduction and Description of the Project and Undertakings
  - 1.1 Description of the Project
    - 1.1.1 (brief description of the project that relies upon Corps undertakings)
  - 1.2 Section 106 Undertakings
    - 1.2.1 (brief description of the Section 106 undertakings such as Rivers and Harbors act and Clean Water Act authorization and permits)
  - 1.3 Purpose and Organization of this Historic Properties Treatment Plan
2. Regulatory Context
  - 2.1 Section 106 of the National Historic Preservation Act
    - 2.1.1 Phasing of Management Steps under Section 106 and the Programmatic Agreement
  - 2.2 State and Federal Law Governing Human Remains
    - 2.2.1 California Law
    - 2.2.2 Native American Graves Protection and Repatriation Act
3. Public and Native American Consultation
  - 3.1 Initial Consultation Efforts
    - 3.1.1 (summary of consultation efforts to date)
  - 3.2 Future Consultation
    - 3.2.1 (summary of future consultation as required under the PA)
4. Natural and Cultural Setting
  - 4.1 Natural Environment
  - 4.2 Prehistoric Context
  - 4.3 Ethnographic Context
  - 4.4 Historic Context
5. Technical Methods for Implementing the Programmatic Agreement
  - 5.1 Inventory
    - 5.1.1 Defining the Area of Potential Effects
      - 5.1.1.1 (describe how the APE will be defined for each phase)
    - 5.1.2 Inventory and Recording Methods
    - 5.1.3 Evaluation
      - 5.1.3.1 Evaluation for the National Register of Historic Places
        - 5.1.3.1.1 Archaeological Resources
        - 5.1.3.1.2 Built Environment Resources
        - 5.1.3.1.3 Traditional Cultural Properties
        - 5.1.3.1.4 Rural Historic Landscapes

- 5.2 Finding of Effect
  - 5.2.1 Application of the Criteria of Adverse Effect Under Section 106
- 6. Treatment Methods for Resolving Adverse Effects
  - 6.1 Archaeological Resources
    - 6.1.1 (typical treatment methods such as data recovery or preservation in place)
  - 6.2 Built Environment Resources
    - 6.2.1 (typical treatments such as HABS/HAER)
  - 6.3 Traditional Cultural Properties
    - 6.3.1 (typical treatments such as documentation, avoidance, etc.)
  - 6.4 Rural Historic Landscapes
    - 6.4.1 (HALS)
- 7. Curation of Recovered Materials
  - 7.1 Curation Methods and Standards
- 8. Construction Monitoring and Inadvertent Discoveries
  - 8.1 Workforce Training
  - 8.2 Monitoring
  - 8.3 Procedures for Inadvertent Discoveries
    - 8.3.1 Stopping Work
    - 8.3.2 Notification to the Corps and Levee Maintaining Agency
    - 8.3.3 Evaluation of the Discovery
    - 8.3.4 Finding of Effect/Treatment (As Necessary)
- 9. References Cited

## **Advisory Council on Historic Preservation Correspondence and Native American Consultation**

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### **Part K.1**

Advisory Council on Historic Preservation Correspondence

### **Part K.2**

Native American Consultation





Part K.1

**Advisory Council on Historic Preservation  
Correspondence**

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Preserving America's Heritage

July 18, 2012

Ms. Alicia E. Kirchner  
Chief, Planning Division  
Environmental Resources Branch  
U.S. Army Corps of Engineers  
Sacramento District  
1325 J Street  
Sacramento, CA 95814-2922

***Ref: Proposed Feather River West Levee Project  
Sutter and Butte Counties, California***

Dear Ms. Kirchner:

On July 2, 2012, the Advisory Council on Historic Preservation (ACHP) received your notification and supporting documentation regarding the development of a Programmatic Agreement (PA) for the referenced undertaking. Based upon the information you provided, we have concluded that Appendix A, *Criteria for Council Involvement in Reviewing Individual Section 106 Cases*, of our regulations, "Protection of Historic Properties" (36 CFR Part 800), does not apply to this undertaking. Accordingly, we do not believe that our participation in the consultation to develop this agreement is needed. However, if we receive a request for participation from the State Historic Preservation Officer (SHPO), a Tribal Historic Preservation Officer, an affected Indian tribe, a consulting party or other party, we may reconsider this decision. Additionally, should circumstances change and you determine that our participation is needed to conclude the consultation process, please notify us.

Pursuant to 36 CFR §800.6(b)(1)(iv), you will need to file the final PA, developed in consultation with the California SHPO and any other consulting parties, and related documentation with the ACHP at the conclusion of the consultation process. The filing of the PA and supporting documentation with the ACHP is required in order to complete the requirements of Section 106 of the National Historic Preservation Act.

Thank you for providing us with your notification of adverse effect. If you have any questions, please contact Tom McCulloch at 202-606-8554, or via email at [tmcculloch@achp.gov](mailto:tmcculloch@achp.gov).

Sincerely,

Raymond V. Wallace  
Historic Preservation Technician  
Office of Federal Agency Programs



## **Native American Consultation**

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February 23, 2012

Katy Sanchez  
California Native American Heritage Commission  
915 Capitol Mall, Room 364  
Sacramento, California 95814

*via e-mail (nahc@pacbell.net)*

**Subject: Sacred Lands File Search and Contacts Request, Feather River West Levee Project**

Dear Ms. Sanchez:

The Sutter Buttes Flood Control Agency (SBFCA) is performing environmental review on proposed improvements to the Feather River West Levee as part of the Feather River West Levee Project (FRWLP). These improvements are necessary to address deficiencies such as through seepage, under seepage, slope stability, erosion and encroachments.

SBFCA would like to enlist the help of members of the Native American community in identifying cultural resources that may be affected by the FRWLP. Because this project will require ground-disturbing construction, identification of cultural resources early in the environmental review process is critical.

Please perform a search of the Sacred Lands File for this project. Maps of the tentative project alignments are attached; the project crosses land within the following locations.

MERIDIAN	TOWNSHIP	RANGE	SECTION	COUNTY	LANDGRANT
MDB&M*			NOT SECTIONED	SUTTER/BUTTE	FERNANDEZ
MDB&M			NOT SECTIONED	SUTTER	BOGA
MDB&M	16N	03E	22	SUTTER	
MDB&M	16N	03E	27	SUTTER	
MDB&M	16N	03E	34	SUTTER	
			0	SUTTER	NEW HELVETIA

\*Mount Diablo Base and Meridian

Ms. Katy Sanchez  
February 23, 2012  
Page 2 of 2

SBFCA would like to identify cultural resources in advance so they may be avoided where feasible. Please provide us with Sacred Lands File information and the most current Native American contact lists for Sutter and Butte Counties via e-mail. Your assistance with this project is appreciated. If you have any questions, please contact me at ICF at [mavina@icfi.com](mailto:mavina@icfi.com), or at 916/231-9732.

Sincerely,

Mike Aviña  
Associate

**Project Maps (attached)**

cc: File

STATE OF CALIFORNIAEdmund G. Brown, Jr., Governor**NATIVE AMERICAN HERITAGE COMMISSION**

915 CAPITOL MALL, ROOM 364  
SACRAMENTO, CA 95814  
(916) 653-6251  
Fax (916) 657-5390



March 22, 2012

Mike Aviña  
ICF International  
630 K Street  
Sacramento, CA 95814

Sent by Fax: 916-737-3030  
Number of Pages: 3

Re: Feather River West Levee Project, Sutter and Butte County.

Dear Mr. Aviña:

A record search of the sacred land file has failed to indicate the presence of Native American cultural resources in the immediate project area. The absence of specific site information in the sacred lands file does not indicate the absence of cultural resources in any project area. Other sources of cultural resources should also be contacted for information regarding known and recorded sites.

Enclosed is a list of Native Americans individuals/organizations who may have knowledge of cultural resources in the project area. The Commission makes no recommendation or preference of a single individual, or group over another. This list should provide a starting place in locating areas of potential adverse impact within the proposed project area. I suggest you contact all of those indicated, if they cannot supply information, they might recommend others with specific knowledge. By contacting all those listed, your organization will be better able to respond to claims of failure to consult with the appropriate tribe or group. If a response has not been received within two weeks of notification, the Commission requests that you follow-up with a telephone call to ensure that the project information has been received.

If you receive notification of change of addresses and phone numbers from any of these individuals or groups, please notify me. With your assistance we are able to assure that our lists contain current information. If you have any questions or need additional information, please contact me at (916) 653-4038.

Sincerely,

A handwritten signature in black ink, appearing to read "Debbie Pilas-Treadway".

Debbie Pilas-Treadway  
Environmental Specialist III

**Native American Contacts  
Sutter and Butte Counties  
March 21, 2012**

April Wallace Moore  
19630 Placer Hills Road  
Colfax, CA 95713  
530-637-4279

Nisenan - So Maidu  
Konkow  
Washoe

Enterprise Rancheria of Maidu Indians  
Glenda Nelson, Chairperson  
2133 Monta Vista Ave  
Oroville, CA 95966  
info@enterpriserancheria.com  
(530) 532-9214  
(530) 532-1768 FAX

Berry Creek Rancheria of Maidu Indians  
Cultural Resources Rep  
#5 Tyme Way  
Oroville, CA 95966  
gmix@berrycreekrancheria.com  
(530) 534-3859  
(530) 534-1151 FAX

Tyme Maidu

Greenville Rancheria of Maidu Indians  
Kyle Self, Chairperson  
PO Box 279  
Greenville, CA 95947  
ksself@greenvillerrancheria.com  
(530) 284-7990  
(530) 284-6612 - Fax

Maidu

Berry Creek Rancheria of Maidu Indians  
Jim Edwards, Chairperson  
#5 Tyme Way  
Oroville, CA 95966  
gmix@berrycreekrancheria.com  
(530) 534-3859  
(530) 534-1151 FAX

Tyme Maidu

KonKow Valley Band of Maidu  
Patsy Seek, Chairperson  
1706 Sweem Street  
Oroville, CA 95965  
(530) 533-1504

KonKow / Concow  
Maidu

Butte Tribal Council  
Ren Reynolds  
1693 Mt. Ida Road  
Oroville, CA 95966  
(530) 589-1571

Maidu

Maidu Cultural and Development Group  
Lorena Gorbet  
PO Box 426  
Greenville, CA 95947  
(530) 284-1601

Maidu

Enterprise Rancheria of Maidu Indians  
Art Angle, Vice Chairperson  
2133 Monta Vista Avenue  
Oroville, CA 95966  
eranch@cncnet.com  
(530) 532-9214  
(530) 532-1768 FAX

Maidu

Maidu Nation  
Clara LeCompte  
P.O Box 204  
Susanville, CA 96130

Maidu

This list is current only as of the date of this document.

Distribution of this list does not relieve any person of statutory responsibility as defined in Section 7050.5 of the Health and Safety Code, Section 5097.94 of the Public Resources Code and Section 5097.98 of the Public Resources Code

This list is only applicable for contacting local Native Americans with regard to cultural resources for the proposed Feather River West Levee project, Sutter and Butte Counties

**Native American Contacts  
Sutter and Butte Counties  
March 21, 2012**

**Mechoopda Indian Tribe of Chico Rancheria**

Dennis E. Ramirez, Chairperson

125 Mission Ranch Blvd  
Chico, CA 95926

dramirez@mechoopda-nsn.gov

(530) 899-8922 ext 215

(530) 899-8517 - Fax

Mechoopda Maidu  
Concow

T si-Akim Maidu

Eileen Moon, Vice Chairperson

1239 East Main St.

Grass Valley, CA 95945

(530) 477-0711

Maidu

**Mechoopda Indian Tribe of Chico Rancheria**

Mike DeSpain, Director - OEPP

125 Mission Ranch Blvd  
Chico, CA 95926

mdespain@mechoopda-nsn.gov

(530) 899-8922 ext 219

(530) 899-8517 - Fax

Mechoopda Maidu  
Concow

United Auburn Indian Community of the Auburn Rancheria

David Keyser, Chairperson

10720 Indian Hill Road

Auburn, CA 95603

530-883-2390

530-883-2380 - Fax

Maidu

Miwok

**Mooretown Rancheria of Maidu Indians**

Gary Archuleta, Chairperson

#1 Alverda Drive  
Oroville, CA 95966

frontdesk@mooretown.org

(530) 533-3625

(530) 533-3680 Fax

Maidu  
KonKow / Concow

United Auburn Indian Community of the Auburn Rancheria

Marcos Guerrero, Tribal Preservation Committee

10720 Indian Hill Road

Auburn, CA 95603

mguerrero@auburnrancheria.com

530-883-2364

530-883-2320 - Fax

Maidu

Miwok

**Mooretown Rancheria of Maidu Indians**

James Sanders, Tribal Administrator

#1 Alverda Drive  
Oroville, CA 95966

(530) 533-3625

(530) 533-3680 FAX

Maidu  
KonKow/Concow

United Auburn Indian Community of the Auburn Rancheria

Gregory S. Baker, Tribal Administrator

10720 Indian Hill Road

Auburn, CA 95603

gbaker@auburnrancheria.com

530-883-2390

530-883-2380 - Fax

Maidu

Miwok

**Strawberry Valley Rancheria**

Cathy Bishop, Chairperson

PO Box 667

Marysville, CA 95901

catfrmsac2@yahoo.com

916-501-2482

Maidu  
Miwok

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September 28, 2012

April Wallace Moore  
19630 Placer Hills Road|  
Colfax, CA 95713

**Subject: Sutter Butte Flood Control Agency, Feather River West Levee Project**

Dear Ms. Moore:

The Sutter Butte Flood Control Agency (SBFCA) is proposing the Feather River West Levee Project (FRWLP, or project) to reduce flood risk in the Sutter Basin, which includes portions of Sutter and Butte Counties in the Sacramento Valley of California. This project will involve levee rehabilitation measures to address levee seepage, slope instability, and erosion issues, as well as encroachments on the levee. The project area for the FRWLP occurs on the corridor along the west levee of the Feather River from Thermalito Afterbay on the north to approximately 4 miles north of the Sutter Bypass on the south. The project area is depicted in the enclosed figures. Because these improvements require ground disturbance, they may affect cultural resources. Cultural resources may include but are not necessarily limited to the following:

- Prehistoric archaeological sites and features,
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- Places that the Native American community or other local cultural groups currently use for ongoing cultural practices and activities.
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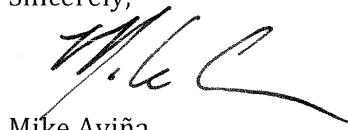
SBFCA recognizes that the locations of many of these resources may be sensitive and confidential. We are requesting information from you about these resources so they may be identified in advance of any activity that may affect them, in order to protect and avoid them to the extent feasible. The location of any resources we identify through our consultation with you will be kept confidential, consistent with State law requirements. SBFCA also requests any comments or feedback you may have about the proposed project and the potential for effects on important cultural resources generally.

Please provide your response within 30 days of receiving this letter. Thank you for your time in responding to this request. I can be reached at (916) 761-2768 or at [Mike.Avina@icfi.com](mailto:Mike.Avina@icfi.com).



Please note that the U.S. Army Corps is also reviewing the potential of the project to result in effects on cultural resources listed on or eligible for listing in the National Register of Historic Places (NRHP). The Corps is preparing a programmatic agreement to implement management steps required under the National Historic Preservation Act. You may contact Mr. S. Joe Griffin, Archaeologist, at (916) 557-7897 or by email at [s.joe.griffin@usace.army.mil](mailto:s.joe.griffin@usace.army.mil) if you have any questions or concerns specifically relating to the potential for effects on resources eligible for or listed on the NRHP, or if you would like to consult with the Corps regarding the management of these resources.

Sincerely,

A handwritten signature in black ink, appearing to read "Mike Aviña", with a long, sweeping horizontal stroke extending to the right.

Mike Aviña  
ICF International

**Enclosures**

Figures 1 and 2



September 28, 2012

Glenda Nelson, Chairperson  
Enterprise Rancheria of Maidu Indians  
2133 Monta Vista Ave  
Oroville, CA 95966

**Subject: Sutter Butte Flood Control Agency, Feather River West Levee Project**

Dear Ms. Nelson:

The Sutter Butte Flood Control Agency (SBFCA) is proposing the Feather River West Levee Project (FRWLP, or project) to reduce flood risk in the Sutter Basin, which includes portions of Sutter and Butte Counties in the Sacramento Valley of California. This project will involve levee rehabilitation measures to address levee seepage, slope instability, and erosion issues, as well as encroachments on the levee. The project area for the FRWLP occurs on the corridor along the west levee of the Feather River from Thermalito Afterbay on the north to approximately 4 miles north of the Sutter Bypass on the south. The project area is depicted in the enclosed figures. Because these improvements require ground disturbance, they may affect cultural resources. Cultural resources may include but are not necessarily limited to the following:


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Sincerely,

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Mike Aviña  
ICF International

**Enclosures**

Figures 1 and 2



September 28, 2012

Jim Edwards, Chairperson  
Berry Creek Rancheria of Maidu Indians  
#5 Tyme Way  
Oroville, CA 95966

**Subject: Sutter Butte Flood Control Agency, Feather River West Levee Project**

Dear Mr. Edwards:

The Sutter Butte Flood Control Agency (SBFCA) is proposing the Feather River West Levee Project (FRWLP, or project) to reduce flood risk in the Sutter Basin, which includes portions of Sutter and Butte Counties in the Sacramento Valley of California. This project will involve levee rehabilitation measures to address levee seepage, slope instability, and erosion issues, as well as encroachments on the levee. The project area for the FRWLP occurs on the corridor along the west levee of the Feather River from Thermalito Afterbay on the north to approximately 4 miles north of the Sutter Bypass on the south. The project area is depicted in the enclosed figures. Because these improvements require ground disturbance, they may affect cultural resources. Cultural resources may include but are not necessarily limited to the following:

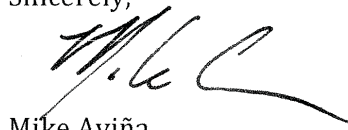
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Sincerely,

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Mike Aviña  
ICF International

**Enclosures**

Figures 1 and 2



September 28, 2012

Kyle Self, Chairperson  
Greenville Rancheria of Maidu Indians  
PO Box 279  
Greenville, CA 95947

**Subject: Sutter Butte Flood Control Agency, Feather River West Levee Project**

Dear Mr. Self:

The Sutter Butte Flood Control Agency (SBFCA) is proposing the Feather River West Levee Project (FRWLP, or project) to reduce flood risk in the Sutter Basin, which includes portions of Sutter and Butte Counties in the Sacramento Valley of California. This project will involve levee rehabilitation measures to address levee seepage, slope instability, and erosion issues, as well as encroachments on the levee. The project area for the FRWLP occurs on the corridor along the west levee of the Feather River from Thermalito Afterbay on the north to approximately 4 miles north of the Sutter Bypass on the south. The project area is depicted in the enclosed figures. Because these improvements require ground disturbance, they may affect cultural resources. Cultural resources may include but are not necessarily limited to the following:

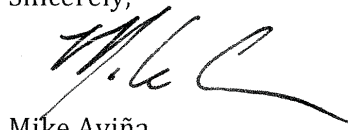
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Sincerely,

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Mike Aviña  
ICF International

**Enclosures**

Figures 1 and 2





September 28, 2012

Patsy Seek, Chairperson  
KonKow Valley Band of Maidu  
1706 Sweem Street  
Oroville, CA 95965

**Subject: Sutter Butte Flood Control Agency, Feather River West Levee Project**

Dear Ms. Seek:

The Sutter Butte Flood Control Agency (SBFCA) is proposing the Feather River West Levee Project (FRWLP, or project) to reduce flood risk in the Sutter Basin, which includes portions of Sutter and Butte Counties in the Sacramento Valley of California. This project will involve levee rehabilitation measures to address levee seepage, slope instability, and erosion issues, as well as encroachments on the levee. The project area for the FRWLP occurs on the corridor along the west levee of the Feather River from Thermalito Afterbay on the north to approximately 4 miles north of the Sutter Bypass on the south. The project area is depicted in the enclosed figures. Because these improvements require ground disturbance, they may affect cultural resources. Cultural resources may include but are not necessarily limited to the following:

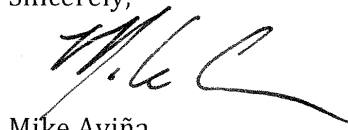
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Sincerely,

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Mike Aviña  
ICF International

**Enclosures**

Figures 1 and 2



September 28, 2012

Ren Reynolds  
Butte Tribal Council  
1693 Mt. Ida Road  
Oroville, CA 95966

**Subject: Sutter Butte Flood Control Agency, Feather River West Levee Project**

Dear Mr. Reynolds:

The Sutter Butte Flood Control Agency (SBFCA) is proposing the Feather River West Levee Project (FRWLP, or project) to reduce flood risk in the Sutter Basin, which includes portions of Sutter and Butte Counties in the Sacramento Valley of California. This project will involve levee rehabilitation measures to address levee seepage, slope instability, and erosion issues, as well as encroachments on the levee. The project area for the FRWLP occurs on the corridor along the west levee of the Feather River from Thermalito Afterbay on the north to approximately 4 miles north of the Sutter Bypass on the south. The project area is depicted in the enclosed figures. Because these improvements require ground disturbance, they may affect cultural resources. Cultural resources may include but are not necessarily limited to the following:


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Sincerely,

A handwritten signature in black ink, appearing to read 'Mike Aviña', with a stylized flourish extending from the end.

Mike Aviña  
ICF International

**Enclosures**

Figures 1 and 2



September 28, 2012

Lorena Gorbet  
Maidu Cultural and Development Group  
PO Box 426  
Greenville, CA 95947

**Subject: Sutter Butte Flood Control Agency, Feather River West Levee Project**

Dear Ms. Gorbet:

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Sincerely,

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Mike Aviña  
ICF International

**Enclosures**

Figures 1 and 2



September 28, 2012

Art Angle, Vice Chairperson  
Enterprise Rancheria of Maidu Indians  
2133 Monta Vista Avenue  
Oroville, CA 95966

**Subject: Sutter Butte Flood Control Agency, Feather River West Levee Project**

Dear Mr. Angle:

The Sutter Butte Flood Control Agency (SBFCA) is proposing the Feather River West Levee Project (FRWLP, or project) to reduce flood risk in the Sutter Basin, which includes portions of Sutter and Butte Counties in the Sacramento Valley of California. This project will involve levee rehabilitation measures to address levee seepage, slope instability, and erosion issues, as well as encroachments on the levee. The project area for the FRWLP occurs on the corridor along the west levee of the Feather River from Thermalito Afterbay on the north to approximately 4 miles north of the Sutter Bypass on the south. The project area is depicted in the enclosed figures. Because these improvements require ground disturbance, they may affect cultural resources. Cultural resources may include but are not necessarily limited to the following:

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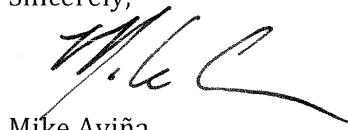
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ICF International

**Enclosures**

Figures 1 and 2



September 28, 2012

Clara LeCompte  
Maidu Nation  
P.O Box 204  
Susanville, CA 96130

**Subject: Sutter Butte Flood Control Agency, Feather River West Levee Project**

Dear Ms. LeCompte:

The Sutter Butte Flood Control Agency (SBFCA) is proposing the Feather River West Levee Project (FRWLP, or project) to reduce flood risk in the Sutter Basin, which includes portions of Sutter and Butte Counties in the Sacramento Valley of California. This project will involve levee rehabilitation measures to address levee seepage, slope instability, and erosion issues, as well as encroachments on the levee. The project area for the FRWLP occurs on the corridor along the west levee of the Feather River from Thermalito Afterbay on the north to approximately 4 miles north of the Sutter Bypass on the south. The project area is depicted in the enclosed figures. Because these improvements require ground disturbance, they may affect cultural resources. Cultural resources may include but are not necessarily limited to the following:


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Please provide your response within 30 days of receiving this letter. Thank you for your time in responding to this request. I can be reached at (916) 761-2768 or at [Mike.Avina@icfi.com](mailto:Mike.Avina@icfi.com).

Please note that the U.S. Army Corps is also reviewing the potential of the project to result in effects on cultural resources listed on or eligible for listing in the National Register of Historic Places (NRHP). The Corps is preparing a programmatic agreement to implement management steps required under the National Historic Preservation Act. You may contact Mr. S. Joe Griffin, Archaeologist, at (916) 557-7897 or by email at [s.joe.griffin@usace.army.mil](mailto:s.joe.griffin@usace.army.mil) if you have any questions or concerns specifically relating to the potential for effects on resources eligible for or listed on the NRHP, or if you would like to consult with the Corps regarding the management of these resources.

Sincerely,

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Mike Aviña  
ICF International

**Enclosures**

Figures 1 and 2



September 28, 2012

Dennis E. Ramirez, Chairperson  
Mechoopda Indian Tribe of Chico Rancheria  
125 Mission Ranch Blvd  
Chico, CA 95926

**Subject: Sutter Butte Flood Control Agency, Feather River West Levee Project**

Dear Mr. Ramirez:

The Sutter Butte Flood Control Agency (SBFCA) is proposing the Feather River West Levee Project (FRWLP, or project) to reduce flood risk in the Sutter Basin, which includes portions of Sutter and Butte Counties in the Sacramento Valley of California. This project will involve levee rehabilitation measures to address levee seepage, slope instability, and erosion issues, as well as encroachments on the levee. The project area for the FRWLP occurs on the corridor along the west levee of the Feather River from Thermalito Afterbay on the north to approximately 4 miles north of the Sutter Bypass on the south. The project area is depicted in the enclosed figures. Because these improvements require ground disturbance, they may affect cultural resources. Cultural resources may include but are not necessarily limited to the following:

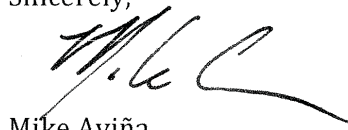
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Mike Aviña  
ICF International

**Enclosures**

Figures 1 and 2



September 28, 2012

Eileen Moon, Vice Chairperson  
Tsi-Akim Maidu  
1239 East Main St.  
Grass Valley, CA 95945

**Subject: Sutter Butte Flood Control Agency, Feather River West Levee Project**

Dear Ms. Moon:

The Sutter Butte Flood Control Agency (SBFCA) is proposing the Feather River West Levee Project (FRWLP, or project) to reduce flood risk in the Sutter Basin, which includes portions of Sutter and Butte Counties in the Sacramento Valley of California. This project will involve levee rehabilitation measures to address levee seepage, slope instability, and erosion issues, as well as encroachments on the levee. The project area for the FRWLP occurs on the corridor along the west levee of the Feather River from Thermalito Afterbay on the north to approximately 4 miles north of the Sutter Bypass on the south. The project area is depicted in the enclosed figures. Because these improvements require ground disturbance, they may affect cultural resources. Cultural resources may include but are not necessarily limited to the following:

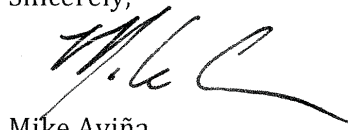
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ICF International

**Enclosures**

Figures 1 and 2





September 28, 2012

Mike DeSpain, Director – OEPP  
Mechoopda Indian Tribe of Chico Rancheria  
125 Mission Ranch Blvd  
Chico, CA 95926

**Subject: Sutter Butte Flood Control Agency, Feather River West Levee Project**

Dear Mr. DeSpain:

The Sutter Butte Flood Control Agency (SBFCA) is proposing the Feather River West Levee Project (FRWLP, or project) to reduce flood risk in the Sutter Basin, which includes portions of Sutter and Butte Counties in the Sacramento Valley of California. This project will involve levee rehabilitation measures to address levee seepage, slope instability, and erosion issues, as well as encroachments on the levee. The project area for the FRWLP occurs on the corridor along the west levee of the Feather River from Thermalito Afterbay on the north to approximately 4 miles north of the Sutter Bypass on the south. The project area is depicted in the enclosed figures. Because these improvements require ground disturbance, they may affect cultural resources. Cultural resources may include but are not necessarily limited to the following:

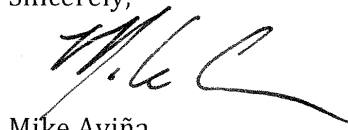
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Mike Aviña  
ICF International

**Enclosures**

Figures 1 and 2



September 28, 2012

David Keyser, Chairperson  
United Auburn Indian Community of the Auburn Rancheria  
10720 Indian Hill Road  
Auburn, CA 95603

**Subject: Sutter Butte Flood Control Agency, Feather River West Levee Project**

Dear Mr. Keyser:

The Sutter Butte Flood Control Agency (SBFCA) is proposing the Feather River West Levee Project (FRWLP, or project) to reduce flood risk in the Sutter Basin, which includes portions of Sutter and Butte Counties in the Sacramento Valley of California. This project will involve levee rehabilitation measures to address levee seepage, slope instability, and erosion issues, as well as encroachments on the levee. The project area for the FRWLP occurs on the corridor along the west levee of the Feather River from Thermalito Afterbay on the north to approximately 4 miles north of the Sutter Bypass on the south. The project area is depicted in the enclosed figures. Because these improvements require ground disturbance, they may affect cultural resources. Cultural resources may include but are not necessarily limited to the following:


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Mike Aviña  
ICF International

**Enclosures**

Figures 1 and 2



September 28, 2012

Gary Archuleta, Chairperson  
Mooretown Rancheria of Maidu Indians  
#1 Alverda Drive  
Oroville, CA 95966

**Subject: Sutter Butte Flood Control Agency, Feather River West Levee Project**

Dear Mr. Archuleta:

The Sutter Butte Flood Control Agency (SBFCA) is proposing the Feather River West Levee Project (FRWLP, or project) to reduce flood risk in the Sutter Basin, which includes portions of Sutter and Butte Counties in the Sacramento Valley of California. This project will involve levee rehabilitation measures to address levee seepage, slope instability, and erosion issues, as well as encroachments on the levee. The project area for the FRWLP occurs on the corridor along the west levee of the Feather River from Thermalito Afterbay on the north to approximately 4 miles north of the Sutter Bypass on the south. The project area is depicted in the enclosed figures. Because these improvements require ground disturbance, they may affect cultural resources. Cultural resources may include but are not necessarily limited to the following:


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Mike Aviña  
ICF International

**Enclosures**

Figures 1 and 2



September 28, 2012

James Sanders, Tribal Administrator  
Mooretown Rancheria of Maidu Indians  
#1 Alverda Drive  
Oroville, CA 95966

**Subject: Sutter Butte Flood Control Agency, Feather River West Levee Project**

Dear Mr. Sanders:

The Sutter Butte Flood Control Agency (SBFCA) is proposing the Feather River West Levee Project (FRWLP, or project) to reduce flood risk in the Sutter Basin, which includes portions of Sutter and Butte Counties in the Sacramento Valley of California. This project will involve levee rehabilitation measures to address levee seepage, slope instability, and erosion issues, as well as encroachments on the levee. The project area for the FRWLP occurs on the corridor along the west levee of the Feather River from Thermalito Afterbay on the north to approximately 4 miles north of the Sutter Bypass on the south. The project area is depicted in the enclosed figures. Because these improvements require ground disturbance, they may affect cultural resources. Cultural resources may include but are not necessarily limited to the following:

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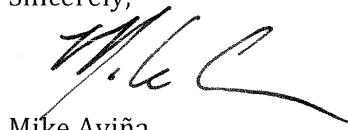
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Mike Aviña  
ICF International

**Enclosures**

Figures 1 and 2



September 28, 2012

Gregory S. Baker, Tribal Administrator  
United Auburn Indian Community of the Auburn Rancheria  
10720 Indian Hill Road  
Auburn, CA 95603

**Subject: Sutter Butte Flood Control Agency, Feather River West Levee Project**

Dear Mr. Baker:

The Sutter Butte Flood Control Agency (SBFCA) is proposing the Feather River West Levee Project (FRWLP, or project) to reduce flood risk in the Sutter Basin, which includes portions of Sutter and Butte Counties in the Sacramento Valley of California. This project will involve levee rehabilitation measures to address levee seepage, slope instability, and erosion issues, as well as encroachments on the levee. The project area for the FRWLP occurs on the corridor along the west levee of the Feather River from Thermalito Afterbay on the north to approximately 4 miles north of the Sutter Bypass on the south. The project area is depicted in the enclosed figures. Because these improvements require ground disturbance, they may affect cultural resources. Cultural resources may include but are not necessarily limited to the following:


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Mike Aviña  
ICF International

**Enclosures**

Figures 1 and 2



September 28, 2012

Cathy Bishop, Chairperson  
Strawberry Valley Rancheria  
PO Box 667  
Marysville, CA 95901

**Subject: Sutter Butte Flood Control Agency, Feather River West Levee Project**

Dear Ms. Bishop:

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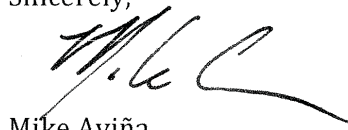
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**Enclosures**

Figures 1 and 2



September 28, 2012

Marcos Guerrero, Tribal Preservation Committee  
United Auburn Indian Community of the Auburn Rancheria  
10720 Indian Hill Road  
Auburn, CA 95603

**Subject: Sutter Butte Flood Control Agency, Feather River West Levee Project**

Dear Mr. Guerrero:

The Sutter Butte Flood Control Agency (SBFCA) is proposing the Feather River West Levee Project (FRWLP, or project) to reduce flood risk in the Sutter Basin, which includes portions of Sutter and Butte Counties in the Sacramento Valley of California. This project will involve levee rehabilitation measures to address levee seepage, slope instability, and erosion issues, as well as encroachments on the levee. The project area for the FRWLP occurs on the corridor along the west levee of the Feather River from Thermalito Afterbay on the north to approximately 4 miles north of the Sutter Bypass on the south. The project area is depicted in the enclosed figures. Because these improvements require ground disturbance, they may affect cultural resources. Cultural resources may include but are not necessarily limited to the following:

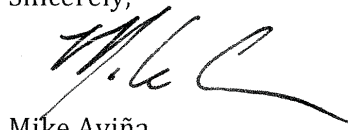
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ICF International

**Enclosures**

Figures 1 and 2





September 28, 2012

Charlie Wright, Chairperson  
Cortina Indian Rancheria of Wintun Indians  
P.O. Box 1630  
Williams, CA 95987

**Subject: Sutter Butte Flood Control Agency, Feather River West Levee Project**

Dear Mr. Wright:

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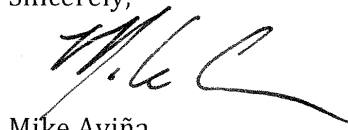
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SBFCA recognizes that the locations of many of these resources may be sensitive and confidential. We are requesting information from you about these resources so they may be identified in advance of any activity that may affect them, in order to protect and avoid them to the extent feasible. The location of any resources we identify through our consultation with you will be kept confidential, consistent with State law requirements. SBFCA also requests any comments or feedback you may have about the proposed project and the potential for effects on important cultural resources generally.

Please provide your response within 30 days of receiving this letter. Thank you for your time in responding to this request. I can be reached at (916) 761-2768 or at [Mike.Avina@icfi.com](mailto:Mike.Avina@icfi.com).

Please note that the U.S. Army Corps is also reviewing the potential of the project to result in effects on cultural resources listed on or eligible for listing in the National Register of Historic Places (NRHP). The Corps is preparing a programmatic agreement to implement management steps required under the National Historic Preservation Act. You may contact Mr. S. Joe Griffin, Archaeologist, at (916) 557-7897 or by email at [s.joe.griffin@usace.army.mil](mailto:s.joe.griffin@usace.army.mil) if you have any questions or concerns specifically relating to the potential for effects on resources eligible for or listed on the NRHP, or if you would like to consult with the Corps regarding the management of these resources.

Sincerely,

A handwritten signature in black ink, appearing to read "Mike Aviña", with a long, sweeping horizontal stroke extending to the right.

Mike Aviña  
ICF International

**Enclosures**

Figures 1 and 2



September 28, 2012

Daniel Gomez, Chairman  
Cachil DeHe Band of Wintun Indians (Colusa Rancheria)  
3730 Highway 45  
Colusa, CA 95932

**Subject: Sutter Butte Flood Control Agency, Feather River West Levee Project**

Dear Mr. Gomez:

The Sutter Butte Flood Control Agency (SBFCA) is proposing the Feather River West Levee Project (FRWLP, or project) to reduce flood risk in the Sutter Basin, which includes portions of Sutter and Butte Counties in the Sacramento Valley of California. This project will involve levee rehabilitation measures to address levee seepage, slope instability, and erosion issues, as well as encroachments on the levee. The project area for the FRWLP occurs on the corridor along the west levee of the Feather River from Thermalito Afterbay on the north to approximately 4 miles north of the Sutter Bypass on the south. The project area is depicted in the enclosed figures. Because these improvements require ground disturbance, they may affect cultural resources. Cultural resources may include but are not necessarily limited to the following:


- Prehistoric archaeological sites and features,
- Sacred lands or locations that are important in Native American culture.
- Places that the Native American community or other local cultural groups currently use for ongoing cultural practices and activities.
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Mike Aviña  
ICF International

**Enclosures**

Figures 1 and 2



September 28, 2012

Andrew Freeman, Chairman  
Paskenta Band of Nomlaki Indians of California  
P.O. Box 398  
Orland, CA 95963

**Subject: Sutter Butte Flood Control Agency, Feather River West Levee Project**

Dear Mr. Freeman:

The Sutter Butte Flood Control Agency (SBFCA) is proposing the Feather River West Levee Project (FRWLP, or project) to reduce flood risk in the Sutter Basin, which includes portions of Sutter and Butte Counties in the Sacramento Valley of California. This project will involve levee rehabilitation measures to address levee seepage, slope instability, and erosion issues, as well as encroachments on the levee. The project area for the FRWLP occurs on the corridor along the west levee of the Feather River from Thermalito Afterbay on the north to approximately 4 miles north of the Sutter Bypass on the south. The project area is depicted in the enclosed figures. Because these improvements require ground disturbance, they may affect cultural resources. Cultural resources may include but are not necessarily limited to the following:


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Mike Aviña  
ICF International

**Enclosures**

Figures 1 and 2

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MIWOK United Auburn Indian Community  
MAIDU of the Auburn Rancheria

David Keyser  
Chairperson

Gene Whitehouse  
Secretary

Brenda Adams  
Treasurer

Calvin Moman  
Council Member

October 16, 2012

Mike Avina  
ICF Jones & Stokes  
630 K Street, Suite 400  
Sacramento, CA

Subject: Sutter Butte Flood Control Agency, Feather River West Levee Project


Dear Mr. Avina,

Thank you for requesting information regarding the above referenced project. The United Auburn Indian Community (UAIC) of the Auburn Rancheria is comprised of Miwok and Southern Maidu (Nisenan) people whose tribal lands are within Placer County and ancestral territory spans into El Dorado, Nevada, Sacramento, Sutter, and Yuba counties. The UAIC is concerned about development within its aboriginal territory that has potential to impact the lifeways, cultural sites, and landscapes that may be of sacred or ceremonial significance. We appreciate the opportunity to comment on this and other projects in your jurisdiction.

In order to ascertain whether or not the project could affect cultural resources that may be of importance to the UAIC, we would like to receive copies of any archaeological reports that have been, or will be, completed for the project. We also request copies of future environmental documents for the proposed project so that we have the opportunity to comment on potential impacts and proposed mitigation measures related to cultural resources. The UAIC would also like the opportunity to have our tribal monitors accompany you during the field survey. The information gathered will provide us with a better understanding of the project and cultural resources on site and is invaluable for consultation purposes.

The UAIC's Preservation Committee would like to set up a meeting and consult about the proposed project. Thank you again for taking these matters into consideration, and for involving the UAIC early in the planning process. We look forward to reviewing the aforementioned documents as requested. Please contact Marcos Guerrero, Tribal Historic Preservation Officer, at (530) 883-2364 or email at [mguerrero@auburnrancheria.com](mailto:mguerrero@auburnrancheria.com) if you have any questions.

Sincerely,

  
David Keyser,  
Chairman

CC: Marcos Guerrero, THPO



# Enterprise Rancheria

Estom Yumeka Maidu Tribe



2133 Monte Vista Ave  
Oroville, CA. 95966

Ph: (530) 532-9214  
Fax: (530) 532-1768  
Email: [info@enterpriserancheria.org](mailto:info@enterpriserancheria.org)

October 12, 2012

ICF International  
Mike Avina  
630 K Street, Suite 400  
Sacramento, CA 95814

Regarding: Sutter Butte Flood Control Agency, Feather River West Levee Project

Dear Mr. Avina,

Thank you for your correspondence dated September 28, 2012. Our Environmental and Cultural Departments have completed a preliminary evaluation of your project and have determined that your project falls within the aboriginal territory of the Enterprise Rancheria Estom Yumeka Maidu Tribe. Furthermore, we have determined that your project may contain culturally and/or environmental resources. Please be advised that our departments issued this decision only as a preliminary review and we request a meeting to discuss our concerns in detail.

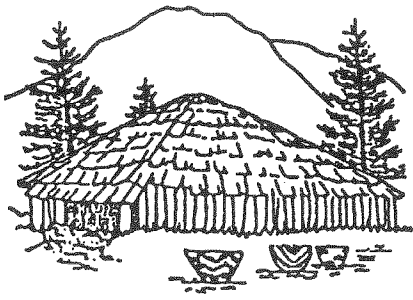
During projects that contain areas of concern for the Tribe, such as yours, we require that our Cultural Site Monitors oversee any activities during the project that has the potential to disturb or affect identified culturally or environmentally sensitive areas. If any resources are uncovered during ground disturbing activities we require that all work cease within the area of the discovery until an examination of the site and/or materials are conducted by a professional archaeologist and Tribal Monitor. If any human remains are uncovered the Health and Safety Code 7050-55097.9 shall be enforced and adhered to.

The Enterprise Rancheria Estom Yumeka Tribe will work with all authorities on the disposition of all cultural resources. All cultural resources discovered on this project are the property of the Tribe and shall be released to the Tribe immediately.

Upon initial review of your project we foresee being directly involved in the project. We respectfully request that no work begin on your project until a formal meeting and agreement between the Tribe and all parties involved is completed. We look forward to developing a cooperative working relationship with you. Please contact our environmental technician, Ren Reynolds, at 530-532-9214 at your earliest convenience to schedule a meeting.

Sincerely,

Cindy Smith  
Environmental Director



# *Mooretown Rancheria*

*#1 Alverda Drive*

*Oroville, CA 95966*

*(530) 533-3625 Office*

*(530) 533-3680 Fax*

October 3, 2012

ICF International  
Attn: Mike Avina  
630 K Street, Suite 400  
Sacramento, CA 95814

RE: Sutter Butte Flood Control Agency, Feather River West Levee Project

Dear Mr. Avina:

Thank you for your notification of the proposed Feather River West Levee Project. Mooretown Rancheria does not have any identified sacred sites which appear to be located within the project locations per se; however, the real possibility exists that any discovered archaeological findings are significant to Mooretown Rancheria and may in fact be directly attributed to our tribal ancestors. Therefore, we respectfully request immediate notification of any archaeological, historic or prehistoric findings. Further, we request the opportunity to review the findings in order to make a determination as to whether or not the findings may have ties to our tribe, and request that our input be considered during the initial stages of review. It has been our unfortunate experience that other projects within the proposed project area have been attributed to other tribes when we were not notified or given any opportunity to review the findings or provide input at any stage.

Sincerely,

Gary W. Archuleta  
Tribal Chairman

GWA/llw

*"Concow - Maidu"*